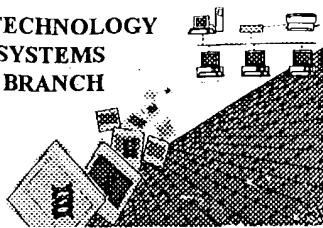


BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/760,320
Source: IFwo
Date Processed by STIC: 1/27/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 4B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03



IFWO

see pp 1-3, 5, 7,
10-11, 13, 15-17, 20,
22, 24-25, 28-33

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004
TIME: 11:25:11

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
Output Set: N:\CRF4\01272004\J760320.raw

3 <110> APPLICANT: Research Association for Biotechnology
5 <120> TITLE OF INVENTION: Full length cDNA
7 <130> FILE REFERENCE: BTR-A0201Y1
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/760,320
C--> 9 <141> CURRENT FILING DATE: 2004-01-21
E--> 9 <160> NUMBER OF SEQ ID NOS: 4994 7988 sequence in submitted file (due to duplicate sequence entries)
11 <170> SOFTWARE: PatentIn Ver. 3.1

Does Not Comply
Corrected Diskette Needed

ERRORED SEQUENCES

254342 <210> SEQ ID NO: 4820 → This appears after 4819 with 4007443.clt
 254343 <211> LENGTH: 486
 254344 <212> TYPE: PRT
 254345 <213> ORGANISM: Homo sapiens
 E--> 254348 <400> SEQUENCE: 443 ? ← appears a record
 254349 Met Arg Gly Arg Gly Ser Gln Gln Gln Pro Thr Arg Arg Gln Gly
 254350 1 5 10 15
 254351 Gln Lys Leu Pro Ser Pro Ser Pro Ala Gly Lys Tyr Glu Ser Ala Gln
 254352 20 25 30
 254353 Pro Gly Gly Thr Gln Pro Glu Pro Gly Leu Gly Ala Arg Met Ala Ile
 254354 35 40 45
 254355 His Lys Ala Leu Val Met Cys Leu Gly Leu Pro Leu Phe Leu Phe Pro
 254356 50 55 60
 254357 Gly Ala Trp Ala Gln Gly His Val Pro Pro Gly Cys Ser Gln Gly Leu
 254358 65 70 75 80
 254359 Asn Pro Leu Tyr Tyr Asn Leu Cys Asp Arg Ser Gly Ala Trp Gly Ile
 254360 85 90 95
 254361 Val Leu Glu Ala Val Ala Gly Ala Gly Ile Val Thr Thr Phe Val Leu
 254362 100 105 110
 254363 Thr Ile Ile Leu Val Ala Ser Leu Pro Phe Val Gln Asp Thr Lys Lys
 254364 115 120 125
 254365 Arg Ser Leu Leu Gly Thr Gln Val Phe Phe Leu Leu Gly Thr Leu Gly
 254366 130 135 140
 254367 Leu Phe Cys Leu Val Phe Ala Cys Val Val Lys Pro Asp Phe Ser Thr
 254368 145 150 155 160
 254369 Cys Ala Ser Arg Arg Phe Leu Phe Gly Val Leu Phe Ala Ile Cys Phe
 254370 165 170 175
 254371 Ser Cys Leu Ala Ala His Val Phe Ala Leu Asn Phe Leu Ala Arg Lys
 254372 180 185 190
 254373 Asn His Gly Pro Arg Gly Trp Val Ile Phe Thr Val Ala Leu Leu Leu
 254374 195 200 205
 254375 Thr Leu Val Glu Val Ile Ile Asn Thr Glu Trp Leu Ile Ile Thr Leu

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004
TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
Output Set: N:\CRF4\01272004\J760320.raw

254376	210	215	220
254377	Val Arg Gly Ser Gly Glu Gly Gly Pro Gln Gly Asn Ser Ser Ala Gly		
254378	225	230	235
254379	Trp Ala Val Ala Ser Pro Cys Ala Ile Ala Asn Met Asp Phe Val Met		240
254380		245	250
254381	Ala Leu Ile Tyr Val Met Leu Leu Leu Gly Ala Phe Leu Gly Ala		255
254382		260	265
254383	Trp Pro Ala Leu Cys Gly Arg Tyr Lys Arg Trp Arg Lys His Gly Val		270
254384		275	280
254385	Phe Val Leu Leu Thr Thr Ala Thr Ser Val Ala Ile Trp Val Val Trp		285
254386		290	295
254387	Ile Val Met Tyr Thr Tyr Gly Asn Lys Gln His Asn Ser Pro Thr Trp		300
254388		305	310
254389	Asp Asp Pro Thr Leu Ala Ile Ala Leu Ala Ala Asn Ala Trp Ala Phe		315
254390		325	330
254391	Val Leu Phe Tyr Val Ile Pro Glu Val Ser Gln Val Thr Lys Ser Ser		335
254392		340	345
254393	Pro Glu Gln Ser Tyr Gln Gly Asp Met Tyr Pro Thr Arg Gly Val Gly		350
254394		355	360
254395	Tyr Glu Thr Ile Leu Lys Glu Gln Lys Gly Gln Ser Met Phe Val Glu		365
254396		370	375
254397	Asn Lys Ala Phe Ser Met Asp Glu Pro Val Ala Ala Lys Arg Pro Val		380
254398		385	390
254399	Ser Pro Tyr Ser Gly Tyr Asn Gly Gln Leu Leu Thr Ser Val Tyr Gln		395
254400		405	410
254401	Pro Thr Glu Met Ala Leu Met His Lys Val Pro Ser Glu Gly Ala Tyr		415
254402		420	425
254403	Asp Ile Ile Leu Pro Arg Ala Thr Ala Asn Ser Gln Val Met Gly Ser		430
254404		435	440
254405	Ala Asn Ser Thr Leu Arg Ala Glu Asp Met Tyr Ser Ala Gln Ser His		445
254406		450	455
254407	Gln Ala Ala Thr Pro Pro Lys Asp Gly Lys Asn Ser Gln Val Phe Arg		460
254408		465	470
254409	Asn Pro Tyr Val Trp Asp		475
254410		485	480
254413	<210> SEQ ID NO: 4821	<i>This is first appearance. Second appearance, with <400> 4821.</i>	
254414	<211> LENGTH: 301		
254415	<212> TYPE: PRT		
254416	<213> ORGANISM: Homo sapiens		
E-->	254418 <400> SEQUENCE: 444		
254419	Met Tyr Thr Arg Arg Tyr Ser Ser Ile Ser Ser Thr Ile Met Asp Val		
254420	1	5	10
			15
254421	Asp Ser Thr Ile Ser Ser Gly Arg Ser Thr Pro Ala Met Met Asn Gly		
254422		20	25
			30
254423	Gln Gly Ser Thr Thr Ser Ser Lys Asn Ile Ala Tyr Asn Cys Cys		
254424		35	40
			45
254425	Trp Asp Gln Cys Gln Ala Cys Phe Asn Ser Ser Pro Asp Leu Ala Asp		
254426		50	55
			60
254427	His Ile Arg Ser Ile His Val Asp Gly Gln Arg Gly Gly Val Phe Val		

RAW SEQUENCE LISTING

DATE: 01/27/2004

PATENT APPLICATION: US/10/760,320

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
 Output Set: N:\CRF4\01272004\J760320.raw

254428	65	70	75	80
254429	Cys Leu Trp Lys Gly Cys Lys Val Tyr Asn Thr Pro Ser Thr Ser Gln			
254430	85	90	95	
254431	Ser Trp Leu Gln Arg His Met Leu Thr His Ser Gly Asp Lys Pro Phe			
254432	100	105	110	
254433	Lys Cys Val Val Gly Gly Cys Asn Ala Ser Phe Ala Ser Gln Gly Gly			
254434	115	120	125	
254435	Leu Ala Arg His Val Pro Thr His Phe Ser Gln Gln Asn Ser Ser Lys			
254436	130	135	140	
254437	Val Ser Ser Gln Pro Lys Ala Lys Glu Glu Ser Pro Ser Lys Ala Gly			
254438	145	150	155	160
254439	Met Asn Lys Arg Arg Lys Leu Lys Asn Lys Arg Arg Arg Ser Leu Pro			
254440	165	170	175	
254441	Arg Pro His Asp Phe Asp Ala Gln Thr Leu Asp Ala Ile Arg His			
254442	180	185	190	
254443	Arg Ala Ile Cys Phe Asn Leu Ser Ala His Ile Glu Ser Leu Gly Lys			
254444	195	200	205	
254445	Gly His Ser Val Val Phe His Ser Thr Val Ile Ala Lys Arg Lys Glu			
254446	210	215	220	
254447	Asp Ser Gly Lys Ile Lys Leu Leu Leu His Trp Met Pro Glu Asp Ile			
254448	225	230	235	240
254449	Leu Pro Asp Val Trp Val Asn Glu Ser Glu Arg His Gln Leu Lys Thr			
254450	245	250	255	
254451	Lys Val Val His Leu Ser Lys Leu Pro Lys Asp Thr Ala Leu Leu Leu			
254452	260	265	270	
254453	Asp Pro Asn Ile Tyr Arg Thr Met Pro Gln Lys Arg Leu Lys Arg Thr			
254454	275	280	285	
254455	Leu Ile Arg Lys Val Phe Asn Leu Tyr Leu Ser Lys Gln			
254456	290	295	300	
254459	<210> SEQ ID NO: 4822			
254460	<211> LENGTH: 626			
254461	<212> TYPE: PRT			
254462	<213> ORGANISM: Homo sapiens			

*First appearance. Second appearance,
with 140074822*

E--> 254464 <400> SEQUENCE: 445

254465	Met Ala Val Ser Gly Phe Thr Leu Gly Thr Cys Ile Leu Leu His			
254466	1	5	10	15
254467	Ile Ser Tyr Val Ala Asn Tyr Pro Asn Gly Lys Val Thr Gln Ser Cys			
254468	20	25	30	
254469	His Gly Met Ile Pro Glu His Gly His Ser Pro Gln Ser Val Pro Val			
254470	35	40	45	
254471	His Asp Ile Tyr Val Ser Gln Met Thr Phe Arg Pro Gly Asp Gln Ile			
254472	50	55	60	
254473	Glu Val Thr Leu Ser Gly His Pro Phe Lys Gly Phe Leu Leu Glu Ala			
254474	65	70	75	80
254475	Arg Asn Ala Glu Asp Leu Asn Gly Pro Pro Ile Gly Ser Phe Thr Leu			
254476	85	90	95	
254477	Ile Asp Ser Glu Val Ser Gln Leu Leu Thr Cys Glu Asp Ile Gln Gly			
254478	100	105	110	
254479	Ser Ala Val Ser His Arg Ser Ala Ser Lys Lys Thr Glu Ile Lys Val			

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004
TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
Output Set: N:\CRF4\01272004\J760320.raw

254480	115	120	125	
254481	Tyr Trp Asn Ala Pro Ser Ser Ala Pro Asn His Thr Gln Phe Leu Val			
254482	130	135	140	
254483	Thr Val Val Glu Lys Tyr Lys Ile Tyr Trp Val Lys Ile Pro Gly Pro			
254484	145	150	155	160
254485	Ile Ile Ser Gln Pro Asn Ala Phe Pro Phe Thr Thr Pro Lys Ala Thr			
254486	165	170	175	
254487	Val Val Leu Leu Pro Thr Leu Pro Pro Val Ser His Leu Thr Lys Pro			
254488	180	185	190	
254489	Phe Ser Ala Ser Asp Cys Gly Asn Lys Lys Phe Cys Ile Arg Ser Pro			
254490	195	200	205	
254491	Leu Asn Cys Asp Pro Glu Lys Glu Ala Ser Cys Val Phe Leu Ser Phe			
254492	210	215	220	
254493	Thr Arg Asp Asp Gln Ser Val Met Val Glu Met Ser Gly Pro Ser Lys			
254494	225	230	235	240
254495	Gly Tyr Leu Ser Phe Ala Leu Ser His Asp Gln Trp Met Gly Asp Asp			
254496	245	250	255	
254497	Asp Ala Tyr Leu Cys Ile His Glu Asp Gln Thr Val Tyr Ile Gln Pro			
254498	260	265	270	
254499	Ser His Leu Thr Gly Arg Ser His Pro Val Met Asp Ser Arg Asp Thr			
254500	275	280	285	
254501	Leu Glu Asp Met Ala Trp Arg Leu Ala Asp Gly Val Met Gln Cys Ser			
254502	290	295	300	
254503	Phe Arg Arg Asn Ile Thr Leu Pro Gly Val Lys Asn Arg Phe Asp Leu			
254504	305	310	315	320
254505	Asn Thr Ser Tyr Tyr Ile Phe Leu Ala Asp Gly Ala Ala Asn Asp Gly			
254506	325	330	335	
254507	Arg Ile Tyr Lys His Ser Gln Gln Pro Leu Ile Thr Tyr Glu Lys Tyr			
254508	340	345	350	
254509	Asp Val Thr Asp Ser Pro Lys Asn Ile Gly Gly Ser His Ser Val Leu			
254510	355	360	365	
254511	Leu Leu Lys Val His Gly Ala Leu Met Phe Val Ala Trp Met Thr Thr			
254512	370	375	380	
254513	Val Ser Ile Gly Val Leu Val Ala Arg Phe Phe Lys Pro Val Trp Ser			
254514	385	390	395	400
254515	Lys Ala Phe Leu Leu Gly Glu Ala Ala Trp Phe Gln Val His Arg Met			
254516	405	410	415	
254517	Leu Met Phe Thr Thr Val Leu Thr Cys Ile Ala Phe Val Met Pro			
254518	420	425	430	
254519	Phe Ile Tyr Arg Gly Gly Trp Ser Arg His Ala Gly Tyr His Pro Tyr			
254520	435	440	445	
254521	Leu Gly Cys Ile Val Met Thr Leu Ala Val Leu Gln Pro Leu Leu Ala			
254522	450	455	460	
254523	Val Phe Arg Pro Pro Leu His Asp Pro Arg Arg Gln Met Phe Asn Trp			
254524	465	470	475	480
254525	Thr His Trp Ser Met Gly Thr Ala Ala Arg Ile Ile Ala Val Ala Ala			
254526	485	490	495	
254527	Met Phe Leu Gly Met Asp Leu Pro Gly Leu Asn Leu Pro Asp Ser Trp			
254528	500	505	510	

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
 Output Set: N:\CRF4\01272004\J760320.raw

254529 Lys Thr Tyr Ala Met Thr Gly Phe Val Ala Trp His Val Gly Thr Glu
 254530 515 520 525
 254531 Val Val Leu Glu Leu Lys Tyr Trp Met Met Thr Glu Phe Arg Ser Phe
 254532 530 535 540
 254533 Ser His Leu Leu Gln Trp Lys Gln Arg Val Met Leu Leu Lys Arg Gln
 254534 545 550 555 560
 254535 Cys Trp Gln Phe Met Ser Val Gly Met Leu Leu Phe Ser Ser Tyr Phe
 254536 565 570 575
 254537 Tyr Leu Gln Ser Thr Ile Tyr Glu Gln Ala Lys Thr Leu Ala Phe Ala
 254538 580 585 590
 254539 Gly Gln Val Ile Ile Ile Lys Pro Lys Lys Leu Glu Ala Cys Pro
 254540 595 600 605
 254541 Asp Cys Leu Glu His Ile Cys Glu Phe Ser Leu Gly Arg Leu Gly Ser
 254542 610 615 620
 254543 Cys Leu
 254544 625
 254547 <210> SEQ ID NO: 4823
 254548 <211> LENGTH: 827
 254549 <212> TYPE: PRT
 254550 <213> ORGANISM: Homo sapiens

E--> 254552 <400> SEQUENCE: 446

254553 Met Ile Arg Arg Leu Lys Thr Glu Val Leu Thr Gln Leu Pro Pro Lys
 254554 1 5 10 15
 254555 Val Arg Gln Arg Ile Pro Phe Asp Leu Pro Ser Ala Ala Ala Lys Glu
 254556 20 25 30
 254557 Leu Asn Thr Ser Phe Glu Glu Trp Glu Lys Ile Met Arg Thr Pro Asn
 254558 35 40 45
 254559 Ser Gly Ala Met Glu Thr Val Met Gly Leu Ile Thr Arg Met Phe Lys
 254560 50 55 60
 254561 Gln Thr Ala Ile Ala Lys Ala Gly Ala Val Lys Asp Tyr Ile Lys Met
 254562 65 70 75 80
 254563 Met Leu Gln Asn Asp Ser Leu Lys Phe Leu Val Phe Ala His His Leu
 254564 85 90 95
 254565 Ser Met Leu Gln Ala Cys Thr Glu Ala Val Ile Glu Asn Lys Thr Arg
 254566 100 105 110
 254567 Tyr Ile Arg Ile Asp Gly Ser Val Ser Ser Ser Glu Arg Ile His Leu
 254568 115 120 125
 254569 Val Asn Gln Phe Gln Lys Asp Pro Asp Thr Arg Val Ala Ile Leu Ser
 254570 130 135 140
 254571 Ile Gln Ala Ala Gly Gln Gly Leu Thr Phe Thr Ala Ala Ser His Val
 254572 145 150 155 160
 254573 Val Phe Ala Glu Leu Tyr Trp Asp Pro Gly His Ile Lys Gln Ala Glu
 254574 165 170 175
 254575 Asp Arg Ala His Arg Ile Gly Gln Cys Ser Ser Val Asn Ile His Tyr
 254576 180 185 190
 254577 Leu Ile Ala Asn Gly Thr Leu Asp Thr Leu Met Trp Gly Met Leu Asn
 254578 195 200 205
 254579 Arg Lys Ala Gln Val Thr Gly Ser Thr Leu Asn Gly Arg Lys Glu Lys
 254580 210 215 220

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004
TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
Output Set: N:\CRF4\01272004\J760320.raw

254581 Ile Gln Ala Glu Glu Gly Asp Lys Glu Lys Trp Asp Phe Leu Gln Phe
254582 225 230 235 240
254583 Ala Glu Ala Trp Thr Pro Asn Asp Ser Ser Glu Glu Leu Arg Lys Glu
254584 245 250 255
254585 Ala Leu Phe Thr His Phe Glu Lys Glu Lys Gln His Asp Ile Arg Ser
254586 260 265 270
254587 Phe Phe Val Pro Gln Pro Lys Lys Arg Gln Leu Met Thr Ser Cys Asp
254588 275 280 285
254589 Glu Ser Lys Arg Phe Arg Glu Glu Asn Thr Val Val Ser Ser Asp Pro
254590 290 295 300
254591 Thr Lys Thr Ala Ala Arg Asp Ile Ile Asp Tyr Glu Ser Asp Val Glu
254592 305 310 315 320
254593 Pro Glu Thr Lys Arg Leu Lys Leu Ala Ala Ser Glu Asp His Cys Ser
254594 325 330 335
254595 Pro Ser Glu Glu Thr Pro Ser Gln Ser Lys Gln Ile Arg Thr Pro Leu
254596 340 345 350
254597 Val Glu Ser Val Gln Glu Ala Lys Ala Gln Leu Thr Thr Pro Ala Phe
254598 355 360 365
254599 Pro Val Glu Gly Trp Gln Cys Ser Leu Cys Thr Tyr Ile Asn Asn Ser
254600 370 375 380
254601 Glu Leu Pro Tyr Cys Glu Met Cys Glu Thr Pro Gln Gly Ser Ala Val
254602 385 390 395 400
254603 Met Gln Ile Asp Ser Leu Asn His Ile Gln Asp Lys Asn Glu Lys Asp
254604 405 410 415
254605 Asp Ser Gln Lys Asp Thr Ser Lys Lys Val Gln Thr Ile Ser Asp Cys
254606 420 425 430
254607 Glu Lys Gln Ala Leu Ala Gln Ser Glu Pro Gly Gln Leu Ala Asp Ser
254608 435 440 445
254609 Lys Glu Glu Thr Pro Lys Ile Glu Lys Glu Asp Gly Leu Thr Ser Gln
254610 450 455 460
254611 Pro Gly Asn Glu Gln Trp Lys Ser Ser Asp Thr Leu Pro Val Tyr Asp
254612 465 470 475 480
254613 Thr Leu Met Phe Cys Ala Ser Arg Asn Thr Asp Arg Ile His Ile Tyr
254614 485 490 495
254615 Thr Lys Asp Gly Lys Gln Met Ser Cys Asn Phe Ile Pro Leu Asp Ile
254616 500 505 510
254617 Lys Leu Asp Leu Trp Glu Asp Leu Pro Ala Ser Phe Gln Leu Lys Gln
254618 515 520 525
254619 Tyr Arg Ser Leu Ile Leu Arg Phe Val Arg Glu Trp Ser Ser Leu Thr
254620 530 535 540
254622 Ala Met Lys Gln Arg Ile Ile Arg Lys Ser Gly Gln Leu Phe Cys Ser
254623 545 550 555 560
254624 Pro Ile Leu Ala Leu Glu Glu Ile Thr Lys Gln Gln Thr Lys Gln Asn
254625 565 570 575
254626 Cys Thr Lys Arg Tyr Ile Thr Lys Glu Asp Val Ala Val Ala Ser Met
254627 580 585 590
254628 Asp Lys Ala Lys Asn Val Gly Gly His Val Arg Leu Ile Thr Lys Glu
254629 595 600 605
254630 Ser Arg Pro Arg Asp Pro Phe Thr Lys Lys Leu Leu Glu Asp Gly Ala

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004
TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
Output Set: N:\CRF4\01272004\J760320.raw

254631	610	615	620
254632	Cys Val Pro Phe Leu Asn Pro Tyr Thr Val Gln Ala Asp Leu Thr Val		
254633	625	630	635 640
254634	Lys Pro Ser Thr Ser Lys Gly Tyr Leu Gln Ala Val Asp Asn Glu Gly		
254635	645	650	655
254636	Asn Pro Leu Cys Leu Arg Cys Gln Gln Pro Thr Cys Gln Thr Lys Gln		
254637	660	665	670
254638	Ala Cys Lys Ala Asn Ser Trp Asp Ser Arg Phe Cys Ser Leu Lys Cys		
254639	675	680	685
254640	Gln Glu Glu Phe Trp Ile Arg Ser Asn Asn Ser Tyr Leu Arg Ala Lys		
254641	690	695	700
254642	Val Phe Glu Thr Glu His Gly Val Cys Gln Leu Cys Asn Val Asn Ala		
254643	705	710	715 720
254644	Gln Glu Leu Phe Leu Arg Leu Arg Asp Ala Pro Lys Ser Gln Arg Lys		
254645	725	730	735
254646	Asn Leu Leu Tyr Ala Thr Trp Thr Ser Lys Leu Pro Leu Glu Gln Leu		
254647	740	745	750
254648	Asn Glu Met Ile Arg Asn Pro Gly Glu Gly His Phe Trp Gln Val Asp		
254649	755	760	765
254650	His Ile Lys Pro Val Tyr Gly Gly Gly Gln Cys Ser Leu Asp Asn		
254651	770	775	780
254652	Leu Gln Thr Leu Cys Thr Val Cys His Lys Glu Arg Thr Ala Arg Gln		
254653	785	790	795 800
254654	Ala Lys Glu Arg Ser Gln Val Arg Arg Gln Ser Leu Ala Ser Lys His		
254655	805	810	815
254656	Gly Ser Asp Ile Thr Arg Phe Leu Val Lys Lys		
254657	820	825	
254661	<210> SEQ ID NO: 4824		
254662	<211> LENGTH: 994		
254663	<212> TYPE: PRT		
254664	<213> ORGANISM: Homo sapiens		
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254667	Met Ser Gln Trp Thr Pro Glu Tyr Lys Glu Leu Tyr Thr Leu Lys Val		
254668	1 5 10 15		
254669	Asp Met Lys Ser Glu Ile Pro Ser Asp Ala Pro Lys Thr Gln Glu Ser		
254670	20 25 30		
254671	Leu Lys Gly Ile Leu Leu His Pro Glu Pro Ile Gly Ala Ala Lys Ser		
254672	35 40 45		
254673	Phe Pro Ala Gly Val Glu Met Ile Asn Ser Lys Val Gly Asn Glu Phe		
254674	50 55 60		
254675	Ser His Leu Cys Asp Asp Ser Gln Lys Gln Glu Lys Glu Met Asn Gly		
254676	65 70 75 80		
254677	Asn Gln Gln Glu Lys Ser Leu Val Val Arg Lys Lys Arg Lys		
254678	85 90 95		
254679	Ser Gln Gln Ala Gly Pro Ser Tyr Val Gln Asn Cys Val Lys Glu Asn		
254680	100 105 110		
254681	Gln Gly Ile Leu Gly Leu Arg Gln His Leu Gly Thr Pro Ser Asp Glu		
254682	115 120 125		
254683	Asp Asn Asp Ser Ser Phe Ser Asp Cys Leu Ser Ser Pro Ser Ser Ser		

*First appearance. Second appearance,
with 40074824*

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004
TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
Output Set: N:\CRF4\01272004\J760320.raw

254684	130	135	140
254685	Leu His Phe Gly Asp Ser Asp Thr Val Thr Ser Asp Glu Asp Lys Glu		
254686	145	150	155 160
254687	Val Ser Val Arg His Ser Gln Thr Ile Leu Asn Ala Lys Ser Arg Ser		
254688	165	170	175
254689	His Ser Ala Arg Ser His Lys Trp Pro Arg Thr Glu Thr Glu Ser Val		
254690	180	185	190
254691	Ser Gly Leu Leu Met Lys Arg Pro Cys Leu His Gly Ser Ser Leu Arg		
254692	195	200	205
254693	Arg Leu Pro Cys Arg Lys Arg Phe Val Lys Asn Asn Ser Ser Gln Arg		
254694	210	215	220
254695	Thr Gln Lys Gln Lys Glu Arg Ile Leu Met Gln Arg Lys Lys Arg Glu		
254696	225	230	235 240
254697	Val Leu Ala Arg Arg Lys Tyr Ala Leu Leu Pro Ser Ser Ser Ser		
254698	245	250	255
254699	Ser Glu Asn Asp Leu Ser Ser Glu Ser Ser Ser Ser Ser Thr Glu		
254700	260	265	270
254701	Gly Glu Glu Asp Leu Phe Val Ser Ala Ser Glu Asn His Gln Asn Asn		
254702	275	280	285
254703	Pro Ala Val Pro Ser Gly Ser Ile Asp Glu Asp Val Val Val Ile Glu		
254704	290	295	300
254705	Ala Ser Ser Thr Pro Gln Val Thr Ala Asn Glu Glu Ile Asn Val Thr		
254706	305	310	315 320
254707	Ser Thr Asp Ser Glu Val Glu Ile Val Thr Val Gly Glu Ser Tyr Arg		
254708	325	330	335
254709	Ser Arg Ser Thr Leu Gly His Ser Arg Ser His Trp Ser Gln Gly Ser		
254710	340	345	350
254711	Ser Ser His Ala Ser Arg Pro Gln Glu Pro Arg Asn Arg Ser Arg Ile		
254712	355	360	365
254713	Ser Thr Val Ile Gln Pro Leu Arg Gln Asn Ala Ala Glu Val Val Asp		
254714	370	375	380
254715	Leu Thr Val Asp Glu Asp Glu Pro Thr Val Val Pro Thr Thr Ser Ala		
254716	385	390	395 400
254717	Arg Met Glu Ser Gln Ala Thr Ser Ala Ser Ile Asn Asn Ser Asn Pro		
254718	405	410	415
254719	Ser Thr Ser Glu Gln Ala Ser Asp Thr Ala Ser Ala Val Thr Ser Ser		
254720	420	425	430
254721	Gln Pro Ser Thr Val Ser Glu Thr Ser Ala Thr Leu Thr Ser Asn Ser		
254722	435	440	445
254723	Thr Thr Gly Thr Ser Ile Gly Asp Asp Ser Arg Arg Thr Thr Ser Ser		
254724	450	455	460
254725	Ala Val Thr Glu Thr Gly Pro Pro Ala Met Pro Arg Leu Pro Ser Cys		
254726	465	470	475 480
254727	Cys Pro Gln His Ser Pro Cys Gly Gly Ser Ser Gln Asn His His Ala		
254728	485	490	495
254729	Leu Gly His Pro His Thr Ser Cys Phe Gln Gln His Gly His His Phe		
254730	500	505	510
254731	Gln His His His His His His Thr Pro His Pro Ala Val Pro Val		
254732	515	520	525

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004
TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
Output Set: N:\CRF4\01272004\J760320.raw

254733 Ser Pro Ser Phe Ser Asp Pro Ala Cys Pro Val Glu Arg Pro Pro Gln
 254734 530 535 540
 254735 Val Gln Ala Pro Cys Gly Ala Asn Ser Ser Ser Gly Thr Ser Tyr His
 254736 545 550 555 560
 254737 Glu Gln Gln Ala Leu Pro Val Asp Leu Ser Asn Ser Gly Ile Arg Ser
 254738 565 570 575
 254739 His Gly Ser Gly Ser Phe His Gly Ala Ser Ala Phe Asp Pro Cys Cys
 254740 580 585 590
 254741 Pro Val Ser Ser Ser Arg Ala Ala Ile Phe Gly His Gln Ala Ala Ala
 254742 595 600 605
 254743 Ala Ala Pro Ser Gln Pro Leu Ser Ser Ile Asp Gly Tyr Gly Ser Ser
 254744 610 615 620
 254745 Met Val Ala Gln Pro Gln Pro Gln Pro Pro Pro Gln Pro Ser Leu Ser
 254746 625 630 635 640
 254747 Ser Cys Arg His Tyr Met Pro Pro Pro Tyr Ala Ser Leu Thr Arg Pro
 254748 645 650 655
 254749 Leu His His Gln Ala Ser Ala Cys Pro His Ser His Gly Asn Pro Pro
 254750 660 665 670
 254751 Pro Gln Thr Gln Pro Pro Pro Gln Val Asp Tyr Val Ile Pro His Pro
 254752 675 680 685
 254753 Val His Ala Phe His Ser Gln Ile Ser Ser His Ala Thr Ser His Pro
 254754 690 695 700
 254755 Val Ala Pro Pro Pro Pro Thr His Leu Ala Ser Thr Ala Ala Pro Ile
 254756 705 710 715 720
 254757 Pro Gln His Leu Pro Pro Thr His Gln Pro Ile Ser His His Ile Pro
 254758 725 730 735
 254759 Ala Thr Ala Pro Pro Ala Gln Arg Leu His Pro His Glu Val Met Gln
 254760 740 745 750
 254761 Arg Met Glu Val Gln Arg Arg Arg Met Met Gln His Pro Thr Arg Ala
 254762 755 760 765
 254763 His Glu Arg Pro Pro Pro His Pro His Arg Met His Pro Asn Tyr Gly
 254764 770 775 780
 254765 His Gly His His Ile His Val Pro Gln Thr Met Ser Ser His Pro Arg
 254766 785 790 795 800
 254767 Gln Ala Pro Glu Arg Ser Ala Trp Glu Leu Gly Ile Glu Ala Gly Val
 254768 805 810 815
 254769 Thr Ala Ala Thr Tyr Thr Pro Gly Ala Leu His Pro His Leu Ala His
 254770 820 825 830
 254771 Tyr His Ala Pro Pro Arg Leu His His Leu Gln Leu Gly Ala Leu Pro
 254772 835 840 845
 254773 Leu Met Val Pro Asp Met Ala Gly Tyr Pro His Ile Arg Tyr Ile Ser
 254774 850 855 860
 254775 Ser Gly Leu Asp Gly Thr Ser Phe Arg Gly Pro Phe Arg Gly Asn Phe
 254776 865 870 875 880
 254777 Glu Glu Leu Ile His Leu Glu Glu Arg Leu Gly Asn Val Asn Arg Gly
 254778 885 890 895
 254779 Ala Ser Gln Gly Thr Ile Glu Arg Cys Thr Tyr Pro His Lys Tyr Lys
 254780 900 905 910
 254781 Lys Val Thr Thr Asp Trp Phe Ser Gln Arg Lys Leu His Cys Lys Gln

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004
TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
Output Set: N:\CRF4\01272004\J760320.raw

254782	915	920	925														
254783	Asp	Gly	Glu	Glu	Gly	Thr	Glu	Glu	Asp	Thr	Glu	Glu	Lys	Cys	Thr	Ile	
254784	930		935		940												
254785	Cys	Leu	Ser	Ile	Leu	Glu	Glu	Gly	Glu	Asp	Val	Arg	Arg	Leu	Pro	Cys	
254786	945			950		955										960	
254787	Met	His	Leu	Phe	His	Gln	Val	Cys	Val	Asp	Gln	Trp	Leu	Val	Thr	Asn	
254788				965			970								975		
254789	Lys	Lys	Cys	Pro	Ile	Cys	Arg	Val	Asp	Ile	Glu	Ala	Gln	Leu	Pro	Ser	
254790				980		985									990		

254791 Glu Ser

254795 <210> SEQ ID NO: 4825

254796 <211> LENGTH: 105

254797 <212> TYPE: PRT

254798 <213> ORGANISM: Homo sapiens

*First appearance. Second appearance, with
(400) 4825*

E--> 254800 <400> SEQUENCE: 448

254801	Met	Glu	Gln	Ser	Trp	Thr	Glu	Asn	Asp	Phe	Asp	Glu	Leu	Arg	Glu	Glu
254802	1				5					10				15		
254803	Gly	Phe	Arg	Arg	Ser	Asn	Tyr	Glu	Leu	Gln	Glu	Glu	Ile	Gln	Ile	Lys
254804					20				25					30		
254805	Gly	Lys	Glu	Val	Lys	Asn	Phe	Glu	Lys	Asn	Leu	Asp	Glu	Cys	Ile	Thr
254806					35			40						45		
254807	Arg	Ile	Thr	Asn	Thr	Glu	Lys	Cys	Leu	Glu	Asp	Leu	Met	Glu	Leu	Lys
254808					50			55				60				
254809	Ala	Lys	Ala	Arg	Glu	Leu	Cys	Glu	Glu	Cys	Arg	Ser	Leu	Arg	Ser	Arg
254810					65			70			75			80		
254811	Cys	Asp	Gln	Leu	Glu	Glu	Arg	Val	Ser	Val	Met	Glu	Asp	Glu	Met	Asn
254812					85			90						95		
254813	Glu	Met	Lys	Gln	Glu	Gly	Lys	Phe	Arg							
254814				100		105										

254817 <210> SEQ ID NO: 4826

254818 <211> LENGTH: 136

254819 <212> TYPE: PRT

254820 <213> ORGANISM: Homo sapiens

*First appearance. Second appearance, with
(400) 4826*

E--> 254822 <400> SEQUENCE: 449

254823	Met	Trp	Leu	Glu	Val	Arg	Ala	Leu	Leu	Ser	Cys	Val	Arg	Val	Phe	
254824	1				5				10					15		
254825	Gln	His	Gly	Thr	Asp	Gly	Ser	Ser	Gly	His	Ser	Leu	Ser	Gln	Gly	Leu
254826					20			25						30		
254827	Ala	Arg	Leu	Arg	His	Asp	Gly	Pro	Ser	Pro	Ala	Leu	Thr	Thr	Thr	Lys
254828					35			40						45		
254829	Ser	Gly	Arg	Val	Glu	Phe	Ala	Val	Asn	Ser	Ala	Val	Pro	Met	Glu	Thr
254830					50			55				60				
254831	Cys	Val	Val	Ser	Glu	Gln	Gln	Tyr	Leu	Leu	Glu	Leu	Val	Gln	Thr	Pro
254832					65			70			75			80		
254833	Arg	Leu	Pro	Ser	Gly	Thr	Thr	Trp	Ser	Thr	Ser	Pro	Arg	Glu	Ala	Ala
254834					85			90						95		
254835	Ala	Leu	Arg	Gly	Cys	Pro	Ala	Gln	Trp	Pro	Leu	Ser	Arg	Val	Ser	Leu
254836					100			105						110		
254837	Gln	Glu	Ala	Ser	Glu	Gln	Ser	Leu	Lys	Pro	Gly	Met	Ala	Pro	Ser	Pro

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/760,320

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Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
 Output Set: N:\CRF4\01272004\J760320.raw

254838 115 120 125

254839 Cys Cys His His Cys Val Leu Thr

254840 130 135

254843 <210> SEQ ID NO: 4827

254844 <211> LENGTH: 250

254845 <212> TYPE: PRT

254846 <213> ORGANISM: Homo sapiens

E--> 254848 <400> SEQUENCE 450

254849 Met Ala Glu Gly Gly Ala Ser Lys Gly Gly Glu Glu Pro Gly Lys

254850 1 5 10 15

254851 Leu Pro Glu Pro Ala Glu Glu Ser Gln Val Leu Arg Gly Thr Gly

254852 20 25 30

254853 His Cys Lys Trp Phe Asn Val Arg Met Gly Phe Gly Phe Ile Ser Met

254854 35 40 45

254855 Ile Asn Arg Glu Gly Ser Pro Leu Asp Ile Pro Val Asp Val Phe Val

254856 50 55 60

254857 His Gln Ser Lys Leu Phe Met Glu Gly Phe Arg Ser Leu Lys Glu Gly

254858 65 70 75 80

254859 Glu Pro Val Glu Phe Thr Phe Lys Lys Ser Ser Lys Gly Leu Glu Ser

254860 85 90 95

254861 Ile Arg Val Thr Gly Pro Gly Ser Pro Cys Leu Gly Ser Glu Arg

254862 100 105 110

254863 Arg Pro Lys Gly Lys Thr Leu Gln Lys Arg Lys Pro Lys Gly Asp Arg

254864 115 120 125

254865 Cys Tyr Asn Cys Gly Gly Leu Asp His His Ala Lys Glu Cys Ser Leu

254866 130 135 140

254867 Pro Pro Gln Pro Lys Lys Cys His Tyr Cys Gln Ser Ile Met His Met

254868 145 150 155 160

254869 Val Ala Asn Cys Pro His Lys Asn Val Ala Gln Pro Pro Ala Ser Ser

254870 165 170 175

254871 Gln Gly Arg Gln Glu Ala Glu Ser Gln Pro Cys Thr Ser Thr Leu Pro

254872 180 185 190

254873 Arg Glu Val Gly Gly His Gly Cys Thr Ser Pro Pro Phe Pro Gln

254874 195 200 205

254875 Glu Ala Arg Ala Glu Ile Ser Glu Arg Ser Gly Arg Ser Pro Gln Glu

254876 210 215 220

254877 Ala Ser Ser Thr Lys Ser Ser Ile Ala Pro Glu Glu Gln Ser Lys Lys

254878 225 230 235 240

254879 Gly Pro Ser Val Gln Lys Arg Lys Lys Thr

254880 245 250

254883 <210> SEQ ID NO: 4828

Appears twice

254884 <211> LENGTH: 748

254885 <212> TYPE: PRT

254886 <213> ORGANISM: Homo sapiens

E--> 254888 <400> SEQUENCE 451

254889 Met Lys Gln Met His Glu Trp Asn Phe Thr Ala Ser Ser Ile Lys Gly

254890 1 5 10 15

254891 Ile Ser Leu Ser Lys Phe Asp Glu Arg Cys Cys Phe Leu Tyr Val His

254892 20 25 30

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
 Output Set: N:\CRF4\01272004\J760320.raw

254893 Asp Asn Ser Asp Asp Phe Gln Ile Tyr Phe Ser Thr Glu Glu Gln Cys
 254894 35 40 45
 254895 Ser Arg Phe Phe Ser Leu Val Lys Glu Met Ile Thr Asn Thr Ala Gly
 254896 50 55 60
 254897 Ser Thr Val Glu Leu Glu Gly Glu Thr Asp Gly Asp Thr Leu Glu Tyr
 254898 65 70 75 80
 254899 Glu Tyr Asp His Asp Ala Asn Gly Glu Arg Val Val Leu Gly Lys Gly
 254900 85 90 95
 254901 Thr Tyr Gly Ile Val Tyr Ala Gly Arg Asp Leu Ser Asn Gln Val Arg
 254902 100 105 110
 254903 Ile Ala Ile Lys Glu Ile Pro Glu Arg Asp Ser Arg Tyr Ser Gln Pro
 254904 115 120 125
 254905 Leu His Glu Glu Ile Ala Leu His Lys Tyr Leu Lys His Arg Asn Ile
 254906 130 135 140
 254907 Val Gln Tyr Leu Gly Ser Val Ser Glu Asn Gly Tyr Ile Lys Ile Phe
 254908 145 150 155 160
 254909 Met Glu Gln Val Pro Gly Gly Ser Leu Ser Ala Leu Leu Arg Ser Lys
 254910 165 170 175
 254911 Trp Gly Pro Met Lys Glu Pro Thr Ile Lys Phe Tyr Thr Lys Gln Ile
 254912 180 185 190
 254913 Leu Glu Gly Leu Lys Tyr Leu His Glu Asn Gln Ile Val His Arg Asp
 254914 195 200 205
 254915 Ile Lys Gly Asp Asn Val Leu Val Asn Thr Tyr Ser Gly Val Val Lys
 254916 210 215 220
 254917 Ile Ser Asp Phe Gly Thr Ser Lys Arg Leu Ala Gly Val Asn Pro Cys
 254918 225 230 235 240
 254919 Thr Glu Thr Phe Thr Gly Thr Leu Gln Tyr Met Ala Pro Glu Ile Ile
 254920 245 250 255
 254921 Asp Gln Gly Pro Arg Gly Tyr Gly Ala Pro Ala Asp Ile Trp Ser Leu
 254922 260 265 270
 254923 Gly Cys Thr Ile Ile Glu Met Ala Thr Ser Lys Pro Pro Phe His Glu
 254924 275 280 285
 254925 Leu Gly Glu Pro Gln Ala Ala Met Phe Lys Val Gly Met Phe Lys Ile
 254926 290 295 300
 254927 His Pro Glu Ile Pro Glu Ala Leu Ser Ala Glu Ala Arg Ala Phe Ile
 254928 305 310 315 320
 254929 Leu Ser Cys Phe Glu Pro Asp Pro His Lys Arg Ala Thr Thr Ala Glu
 254930 325 330 335
 254931 Leu Leu Arg Glu Gly Phe Leu Arg Gln Val Asn Lys Gly Lys Lys Asn
 254932 340 345 350
 254933 Arg Ile Ala Phe Lys Pro Ser Glu Gly Pro Arg Gly Val Val Leu Ala
 254934 355 360 365
 254935 Leu Pro Thr Gln Gly Glu Pro Met Ala Thr Ser Ser Ser Glu His Gly
 254936 370 375 380
 254937 Ser Val Ser Pro Asp Ser Asp Ala Gln Pro Asp Ala Leu Phe Glu Arg
 254938 385 390 395 400
 254939 Thr Arg Ala Pro Arg His His Leu Gly His Leu Leu Ser Val Pro Asp
 254940 405 410 415
 254941 Glu Ser Ser Ala Leu Glu Asp Arg Gly Leu Ala Ser Ser Pro Glu Asp

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

254942 420 425 430
 254943 Arg Asp Gln Gly Leu Phe Leu Leu Arg Lys Asp Ser Glu Arg Arg Ala
 254944 435 440 445
 254945 Ile Leu Tyr Lys Ile Leu Trp Glu Glu Gln Asn Gln Val Ala Ser Asn
 254946 450 455 460
 254947 Leu Gln Glu Cys Val Ala Gln Ser Ser Glu Glu Leu His Leu Ser Val
 254948 465 470 475 480
 254949 Gly His Ile Lys Gln Ile Ile Gly Ile Leu Arg Asp Phe Ile Arg Ser
 254950 485 490 495
 254951 Pro Glu His Arg Val Met Ala Thr Thr Ile Ser Lys Leu Lys Val Asp
 254952 500 505 510
 254953 Leu Asp Phe Asp Ser Ser Ser Ile Ser Gln Ile His Leu Val Leu Phe
 254954 515 520 525
 254955 Gly Phe Gln Asp Ala Val Asn Lys Ile Leu Arg Asn His Leu Ile Arg
 254956 530 535 540
 254957 Pro His Trp Met Phe Ala Met Asp Asn Ile Ile Arg Arg Ala Val Gln
 254958 545 550 555 560
 254959 Ala Ala Val Thr Ile Leu Ile Pro Glu Leu Arg Ala His Phe Glu Pro
 254960 565 570 575
 254961 Thr Cys Glu Thr Glu Gly Val Asp Lys Asp Met Asp Glu Ala Glu Glu
 254962 580 585 590
 254963 Gly Tyr Pro Pro Ala Thr Gly Pro Gly Gln Glu Ala Gln Pro His Gln
 254964 595 600 605
 254965 Gln His Leu Ser Leu Gln Leu Gly Glu Leu Arg Gln Glu Thr Asn Arg
 254966 610 615 620
 254967 Leu Leu Glu His Leu Val Glu Lys Glu Arg Glu Tyr Gln Asn Leu Leu
 254968 625 630 635 640
 254969 Arg Gln Thr Leu Glu Gln Lys Thr Gln Glu Leu Tyr His Leu Gln Leu
 254970 645 650 655
 254971 Lys Leu Lys Ser Asn Cys Ile Thr Glu Asn Pro Ala Gly Pro Tyr Gly
 254972 660 665 670
 254973 Gln Arg Thr Asp Lys Glu Leu Ile Asp Trp Leu Arg Leu Gln Gly Ala
 254974 675 680 685
 254975 Asp Ala Lys Thr Ile Glu Lys Ile Val Glu Glu Gly Tyr Thr Leu Ser
 254976 690 695 700
 254977 Asp Ile Leu Asn Glu Ile Thr Lys Glu Asp Leu Arg Tyr Leu Arg Leu
 254978 705 710 715 720
 254979 Arg Gly Gly Leu Leu Cys Arg Leu Trp Ser Ala Val Ser Gln Tyr Arg
 254980 725 730 735
 254981 Arg Ala Gln Glu Ala Ser Glu Thr Lys Asp Lys Ala
 254982 740 745
 254985 <210> SEQ ID NO: 4829
 254986 <211> LENGTH: 572
 254987 <212> TYPE: PRT
 254988 <213> ORGANISM: Homo sapiens
E--> 254990 <400> SEQUENCE: 452
 254991 Met Cys His Phe Lys Leu Val Ala Ile Val Gly Tyr Leu Ile Arg Leu
 254992 1 5 10 15
 254993 Ser Ile Lys Ser Ile Gln Ile Glu Ala Asp Asn Cys Val Thr Asp Ser

Appears twice

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/760,320

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Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

254994	20	25	30	
254995	Leu Thr Ile Tyr Asp Ser Leu Leu Pro Ile Arg Ser Ser Ile Leu Tyr			
254996	35	40	45	
254997	Arg Ile Cys Glu Pro Thr Arg Thr Leu Met Ser Phe Val Ser Thr Asn			
254998	50	55	60	
254999	Asn Leu Met Leu Val Thr Phe Lys Ser Pro His Ile Arg Arg Leu Ser			
255000	65	70	75	80
255001	Gly Ile Arg Ala Tyr Phe Glu Val Ile Pro Glu Gln Lys Cys Glu Asn			
255002	85	90	95	
255003	Thr Val Leu Val Lys Asp Ile Thr Gly Phe Glu Gly Lys Ile Ser Ser			
255004	100	105	110	
255005	Pro Tyr Tyr Pro Ser Tyr Tyr Pro Pro Lys Cys Lys Cys Thr Trp Lys			
255006	115	120	125	
255007	Phe Gln Thr Ser Leu Ser Thr Leu Gly Ile Ala Leu Lys Phe Tyr Asn			
255008	130	135	140	
255009	Tyr Ser Ile Thr Lys Lys Ser Met Lys Gly Cys Glu His Gly Trp Trp			
255010	145	150	155	160
255011	Glu Ile Asn Glu His Met Tyr Cys Gly Ser Tyr Met Asp His Gln Thr			
255012	165	170	175	
255013	Ile Phe Arg Val Pro Ser Pro Leu Val His Ile Gln Leu Gln Cys Ser			
255014	180	185	190	
255015	Ser Arg Leu Ser Asp Lys Pro Leu Leu Ala Glu Tyr Gly Ser Tyr Asn			
255016	195	200	205	
255017	Ile Ser Gln Pro Cys Pro Val Gly Ser Phe Arg Cys Ser Ser Gly Leu			
255018	210	215	220	
255019	Cys Val Pro Gln Ala Gln Arg Cys Asp Gly Val Asn Asp Cys Phe Asp			
255020	225	230	235	240
255021	Glu Ser Asp Glu Leu Phe Cys Val Ser Pro Gln Pro Ala Cys Asn Thr			
255022	245	250	255	
255023	Ser Ser Phe Arg Gln His Gly Pro Leu Ile Cys Asp Gly Phe Arg Asp			
255024	260	265	270	
255025	Cys Glu Asn Gly Arg Asp Glu Gln Asn Cys Thr Gln Ser Ile Pro Cys			
255026	275	280	285	
255027	Asn Asn Arg Thr Phe Lys Cys Gly Asn Asp Ile Cys Phe Arg Lys Gln			
255028	290	295	300	
255029	Asn Ala Lys Cys Asp Gly Thr Val Asp Cys Pro Asp Gly Ser Asp Glu			
255030	305	310	315	320
255031	Glu Gly Cys Thr Cys Ser Arg Ser Ser Ala Leu His Arg Ile Ile			
255032	325	330	335	
255033	Gly Gly Thr Asp Thr Leu Glu Gly Gly Trp Pro Trp Gln Val Ser Leu			
255034	340	345	350	
255035	His Phe Val Gly Ser Ala Tyr Cys Gly Ala Ser Val Ile Ser Arg Glu			
255036	355	360	365	
255037	Trp Leu Leu Ser Ala Ala His Cys Phe His Gly Asn Arg Leu Ser Asp			
255038	370	375	380	
255039	Pro Thr Pro Trp Thr Ala His Leu Gly Met Tyr Val Gln Gly Asn Ala			
255040	385	390	395	400
255041	Lys Phe Val Ser Pro Val Arg Arg Ile Val Val His Glu Tyr Tyr Asn			
255042	405	410	415	

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US(Sequence listing).txt
 Output Set: N:\CRF4\01272004\J760320.raw

255043 Ser Gln Thr Phe Asp Tyr Asp Ile Ala Leu Leu Gln Leu Ser Ile Ala
 255044 420 425 430
 255045 Trp Pro Glu Thr Leu Lys Gln Leu Ile Gln Pro Ile Cys Ile Pro Pro
 255046 435 440 445
 255047 Thr Gly Gln Arg Val Arg Ser Gly Glu Lys Cys Trp Val Thr Gly Trp
 255048 450 455 460
 255049 Gly Arg Arg His Glu Ala Asp Asn Lys Gly Ser Leu Val Leu Gln Gln
 255050 465 470 475 480
 255051 Ala Glu Val Glu Leu Ile Asp Gln Thr Leu Cys Val Ser Thr Tyr Gly
 255052 485 490 495
 255053 Ile Ile Thr Ser Arg Met Leu Cys Ala Gly Ile Met Ser Gly Lys Arg
 255054 500 505 510
 255055 Asp Ala Cys Lys Gly Asp Ser Gly Gly Pro Leu Ser Cys Arg Arg Lys
 255056 515 520 525
 255057 Ser Asp Gly Lys Trp Ile Leu Thr Gly Ile Val Ser Trp Gly His Gly
 255058 530 535 540
 255059 Cys Gly Arg Pro Asn Phe Pro Gly Val Tyr Thr Arg Val Ser Asn Phe
 255060 545 550 555 560
 255061 Val Pro Trp Ile His Lys Tyr Val Pro Ser Leu Leu
 255062 565 570
 255065 <210> SEQ ID NO: 4830
 255066 <211> LENGTH: 134 *Appears twice.*

255067 <212> TYPE: PRT
 255068 <213> ORGANISM: Homo sapiens

E--> 255070 <400> SEQUENCE: 453

255071 Met Val Gly Leu Leu Phe His Ala Pro Lys Ala Pro Glu Met Ala Pro
 255072 1 5 10 15
 255073 Leu Arg Cys Cys Ile Met Asn Lys Ile Ile Met Val Arg Arg Pro Lys
 255074 20 25 30
 255075 Gln Ser Thr Ala Asp Tyr Gly Met Arg Thr Ser Gly Pro Val Glu Ser
 255076 35 40 45
 255077 Gly Leu Ser Ala Asp Ser Leu Gln Leu Leu Cys Ser Tyr Ala Ala Ile
 255078 50 55 60
 255079 Lys Asn Ser Ala Glu Leu Leu Met Val Gly Pro Gln Gly Met Arg Pro
 255080 65 70 75 80
 255081 Ala Thr Gly Gln Asp Leu Leu Cys Arg Pro Cys Leu Ser His Asp Leu
 255082 85 90 95
 255083 Pro Gly Pro Leu His Pro Pro Arg Gly Leu Ser Gly Ser Ser Leu
 255084 100 105 110
 255085 Leu Ile Ser Pro Arg Leu Gln Asp Val Ser Leu Gln Leu Val His Pro
 255086 115 120 125
 255087 Thr Pro Glu Ser Phe
 255088 130
 255091 <210> SEQ ID NO: 4831
 255092 <211> LENGTH: 184 *Appears twice.*

255093 <212> TYPE: PRT
 255094 <213> ORGANISM: Homo sapiens

E--> 255096 <400> SEQUENCE: 454

255097 Met Pro Phe Arg Lys Ala Cys Gly Pro Lys Leu Thr Asn Ser Pro Thr

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
 Output Set: N:\CRF4\01272004\J760320.raw

255098 1 5 10 15
 255099 Val Ile Val Met Val Gly Leu Pro Ala Arg Gly Lys Thr Tyr Ile Ser
 255100 20 25 30
 255101 Lys Lys Leu Thr Arg Tyr Leu Tyr Trp Ile Gly Val Pro Thr Lys Val
 255102 35 40 45
 255103 Phe Asn Val Gly Glu Tyr Arg Arg Glu Ala Val Lys Gln Tyr Ser Ser
 255104 50 55 60
 255105 Tyr Asn Phe Phe Arg Pro Asp Asn Glu Glu Ala Met Lys Val Arg Lys
 255106 65 70 75 80
 255107 Gln Cys Ala Leu Ala Ala Leu Arg Asp Val Lys Ser Tyr Leu Ala Lys
 255108 85 90 95
 255109 Glu Gly Gly Gln Ile Ala Val Phe Asp Ala Thr Asn Thr Thr Arg Glu
 255110 100 105 110
 255111 Arg Arg His Met Ile Leu His Phe Ala Lys Glu Asn Asp Phe Lys Ala
 255112 115 120 125
 255113 Phe Phe Ile Glu Ser Val Cys Asp Asp Pro Thr Val Val Ala Ser Asn
 255114 130 135 140
 255115 Ile Met Gln Lys Ala Phe Gln Arg Asp Leu Ser Ala Thr Pro Leu Trp
 255116 145 150 155 160
 255117 Cys Cys Arg Lys Leu Lys Ser Pro Ala Arg Ile Thr Lys Thr Ala Thr
 255118 165 170 175
 255119 Arg Gln Lys Pro Trp Thr Thr Ser
 255120 180
 255123 <210> SEQ ID NO: 4832
 255124 <211> LENGTH: 493 *Appears twice*
 255125 <212> TYPE: PRT
 255126 <213> ORGANISM: Homo sapiens

E--> 255128 <400> SEQUENCE: 455

255129 Met Gly Pro Thr Ser Val Leu Arg Ala Gly Leu Thr Pro Ser Cys Leu
 255130 1 5 10 15
 255131 Pro Pro Pro Ser Gly Ala Thr Asn Gly Ser Val Ser Pro Leu Gly Arg
 255132 20 25 30
 255133 Ala Gln Arg Val Trp Thr Glu Pro Gly Gly Arg Gly Leu His Gly Ala
 255134 35 40 45
 255135 Thr Ala Ala Gly Pro Val Ala Ala Ala Cys Pro Leu Leu Ala Val Thr
 255136 50 55 60
 255137 Ala Thr Ala Pro Gly Gln Pro Ser Gly Ala Ser Thr Val Trp Val Arg
 255138 65 70 75 80
 255139 Glu Gly Gly Thr Ala Pro Ala Thr Arg Met Thr Val Pro Leu Ala Pro
 255140 85 90 95
 255141 Arg Thr Ser Glu Lys Cys Ser Val Leu Asn Leu Thr Ala Ser Leu Ser
 255142 100 105 110
 255143 Val Gly Asn Ser Thr Ser Gly Lys Arg Thr Gly Glu Ala Cys Ser Leu
 255144 115 120 125
 255145 Thr Cys Leu Ala Glu Gly Phe Asn Phe Tyr Thr Glu Arg Ala Ala Ala
 255146 130 135 140
 255147 Val Val Asp Gly Thr Pro Cys Arg Pro Asp Thr Val Asp Ile Cys Val
 255148 145 150 155 160
 255149 Ser Gly Glu Cys Lys His Val Gly Cys Asp Arg Val Leu Gly Ser Asp

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
Output Set: N:\CRF4\01272004\J760320.raw

255150 165 170 175
 255151 Leu Arg Glu Asp Lys Cys Arg Val Cys Gly Gly Asp Gly Ser Ala Cys
 255152 180 185 190
 255153 Glu Thr Ile Glu Gly Val Phe Ser Pro Ala Ser Pro Gly Ala Gly Tyr
 255154 195 200 205
 255155 Glu Asp Val Val Trp Ile Pro Lys Gly Ser Val His Ile Phe Ile Gln
 255156 210 215 220
 255157 Asp Leu Asn Leu Ser Leu Asn His Leu Ala Leu Lys Gly Asp Gln Glu
 255158 225 230 235 240
 255159 Ser Leu Leu Leu Glu Gly Leu Pro Gly Thr Pro Gln Pro His Arg Leu
 255160 245 250 255
 255161 Pro Leu Ala Gly Thr Thr Phe Gln Leu Arg Gln Gly Pro Asp Gln Val
 255162 260 265 270
 255163 Gln Ser Leu Glu Ala Leu Gly Pro Ile Asn Ala Ser Leu Ile Val Met
 255164 275 280 285
 255165 Val Leu Ala Arg Thr Glu Leu Pro Ala Leu Arg Tyr Arg Phe Asn Ala
 255166 290 295 300
 255167 Pro Ile Ala Arg Asp Ser Leu Pro Pro Tyr Ser Trp His Tyr Ala Pro
 255168 305 310 315 320
 255169 Trp Thr Arg Cys Ser Ala Gln Cys Ala Gly Gly Ser Gln Val Gln Ala
 255170 325 330 335
 255171 Val Glu Cys Arg Asn Gln Leu Asp Gly Ser Ala Val Ala Pro His Tyr
 255172 340 345 350
 255173 Cys Ser Ala His Ser Lys Leu Pro Lys Arg Gln Arg Ala Cys Asn Thr
 255174 355 360 365
 255175 Glu Pro Cys Pro Pro Asp Trp Val Val Gly Asn Trp Ser Leu Cys Ser
 255176 370 375 380
 255177 Arg Ser Cys Asp Ala Gly Val Arg Ser Arg Ser Val Val Cys Gln Arg
 255178 385 390 395 400
 255179 Arg Val Ser Ala Ala Glu Glu Lys Ala Leu Asp Asp Ser Ala Cys Pro
 255180 405 410 415
 255181 Gln Pro Arg Pro Pro Val Leu Glu Ala Cys His Gly Pro Thr Cys Pro
 255182 420 425 430
 255183 Pro Glu Trp Ala Ala Leu Asp Trp Ser Glu Cys Thr Pro Ser Cys Gly
 255184 435 440 445
 255185 Pro Gly Leu Arg His Arg Val Val Leu Cys Lys Ser Ala Asp His Arg
 255186 450 455 460
 255187 Ala Thr Leu Pro Pro Ala His Cys Ser Pro Ala Ala Lys Pro Pro Ala
 255188 465 470 475 480
 255189 Thr Met Arg Cys Asn Leu Arg Arg Cys Pro Pro Ala Arg
 255190 485 490
 255193 <210> SEQ ID NO: 4833
 255194 <211> LENGTH: 803 *appears twice*
 255195 <212> TYPE: PRT
 255196 <213> ORGANISM: Homo sapiens
E--> 255198 <400> SEQUENCE: 456
 255199 Met Ile Ser Ala Gln Cys Asn Leu Cys Leu Pro Gly Ser Gly Asp Ser
 255200 1 5 10 15
 255201 Cys Ala Ser Gly Ser Gln Leu Ala Gly Thr Thr Val Ala Gly Pro Ala

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
 Output Set: N:\CRF4\01272004\J760320.raw

255202	20	25	30	
255203	His Pro Glu Ser Leu Thr Leu Cys Ser Gly Glu Ala Glu Arg Arg Gly			
255204	35	40	45	
255205	Lys Glu Glu Trp Pro Asp Ser His His Tyr Pro Gly Pro Thr Pro Ala			
255206	50	55	60	
255207	Pro Glu Ser Ser Asp Gly Pro His Lys Val Thr Val Leu Ala Thr Met			
255208	65	70	75	80
255209	Leu Ser Ser Arg Trp Trp Pro Ser Ser Trp Gly Ile Leu Gly Leu Gly			
255210	85	90	95	
255211	Pro Arg Ser Pro Pro Arg Gly Ser Gln Leu Cys Ala Leu Tyr Ala Phe			
255212	100	105	110	
255213	Thr Tyr Thr Gly Ala Asp Gly Gln Gln Val Ser Leu Ala Glu Gly Asp			
255214	115	120	125	
255215	Arg Phe Leu Leu Leu Arg Lys Thr Asn Ser Asp Trp Trp Leu Ala Arg			
255216	130	135	140	
255217	Arg Leu Glu Ala Pro Ser Thr Ser Arg Pro Ile Phe Val Pro Ala Ala			
255218	145	150	155	160
255219	Tyr Met Ile Glu Glu Ser Ile Pro Ser Gln Ser Pro Thr Thr Val Ile			
255220	165	170	175	
255221	Pro Gly Gln Leu Leu Trp Thr Pro Gly Pro Lys Leu Phe His Gly Ser			
255222	180	185	190	
255223	Leu Glu Glu Leu Ser Gln Ala Leu Pro Ser Arg Ala Gln Ala Ser Ser			
255224	195	200	205	
255225	Glu Gln Pro Pro Pro Leu Pro Arg Lys Met Cys Arg Ser Val Ser Thr			
255226	210	215	220	
255227	Asp Asn Leu Ser Pro Ser Leu Leu Lys Pro Phe Gln Glu Gly Pro Ser			
255228	225	230	235	240
255229	Gly Arg Ser Leu Ser Gln Glu Asn Leu Pro Pro Glu Ala Ser Ala Ser			
255230	245	250	255	
255231	Thr Ala Gly Pro Gln Pro Leu Met Ser Glu Pro Pro Val Tyr Cys Asn			
255232	260	265	270	
255233	Leu Val Asp Leu Arg Arg Cys Pro Arg Ser Pro Pro Pro Gly Pro Ala			
255234	275	280	285	
255235	Cys Pro Leu Leu Gln Arg Pro Asp Ala Trp Glu Gln His Leu Asp Pro			
255236	290	295	300	
255237	Asn Ser Gly Arg Cys Phe Tyr Ile Asn Ser Leu Thr Gly Cys Lys Ser			
255238	305	310	315	320
255239	Trp Lys Pro Pro Arg Arg Ser Arg Ser Glu Thr Asn Pro Gly Ser Met			
255240	325	330	335	
255241	Glu Gly Thr Gln Thr Leu Lys Arg Asn Asn Asp Val Leu Gln Pro Gln			
255242	340	345	350	
255243	Ala Lys Gly Phe Arg Ser Asp Thr Gly Thr Pro Glu Pro Leu Asp Pro			
255244	355	360	365	
255245	Gln Gly Ser Leu Ser Leu Ser Gln Arg Thr Ser Gln Leu Asp Pro Pro			
255246	370	375	380	
255247	Ala Leu Gln Ala Pro Arg Pro Leu Pro Gln Leu Leu Asp Asp Pro His			
255248	385	390	395	400
255249	Glu Val Glu Lys Ser Gly Leu Leu Asn Met Thr Lys Ile Ala Gln Gly			
255250	405	410	415	

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

255251 Gly Arg Lys Leu Arg Lys Asn Trp Gly Pro Ser Trp Val Val Leu Thr
 255252 420 425 430
 255253 Gly Asn Ser Leu Val Phe Tyr Arg Glu Pro Pro Pro Thr Ala Pro Ser
 255254 435 440 445
 255255 Ala Gly Trp Gly Pro Ala Gly Ser Arg Pro Glu Ser Ser Val Asp Leu
 255256 450 455 460
 255257 Arg Gly Ala Ala Leu Ala His Gly Arg His Leu Ser Ser Arg Arg Asn
 255258 465 470 475 480
 255259 Val Leu His Ile Arg Thr Ile Pro Gly His Glu Phe Leu Leu Gln Ser
 255260 485 490 495
 255261 Asp His Glu Thr Glu Leu Arg Ala Trp His Arg Ala Leu Arg Thr Val
 255262 500 505 510
 255263 Ile Glu Arg Leu Asp Arg Glu Asn Pro Leu Glu Leu Arg Leu Ser Gly
 255264 515 520 525
 255265 Ser Gly Pro Ala Glu Leu Ser Ala Gly Glu Asp Glu Glu Glu Glu Ser
 255266 530 535 540
 255267 Glu Leu Val Ser Lys Pro Leu Leu Arg Leu Ser Ser Arg Arg Ser Ser
 255268 545 550 555 560
 255269 Ile Arg Gly Pro Glu Gly Thr Glu Gln Asn Arg Val Arg Asn Lys Leu
 255270 565 570 575
 255271 Lys Arg Leu Ile Ala Lys Arg Pro Pro Leu Gln Ser Leu Gln Glu Arg
 255272 580 585 590
 255273 Gly Leu Leu Arg Asp Gln Val Phe Gly Cys Gln Leu Glu Ser Leu Cys
 255274 595 600 605
 255275 Gln Arg Glu Gly Asp Thr Val Pro Ser Phe Leu Arg Leu Cys Ile Ala
 255276 610 615 620
 255277 Ala Val Asp Lys Arg Gly Leu Asp Val Asp Gly Ile Tyr Arg Val Ser
 255278 625 630 635 640
 255279 Gly Asn Leu Ala Val Val Gln Lys Leu Arg Phe Leu Val Asp Arg Glu
 255280 645 650 655
 255281 Arg Ala Val Thr Ser Asp Gly Arg Tyr Val Phe Pro Glu Gln Pro Gly
 255282 660 665 670
 255283 Gln Glu Gly Arg Leu Asp Leu Asp Ser Thr Glu Trp Asp Asp Ile His
 255284 675 680 685
 255285 Val Val Thr Gly Ala Leu Lys Leu Phe Leu Arg Glu Leu Pro Gln Pro
 255286 690 695 700
 255287 Leu Val Pro Pro Leu Leu Pro His Phe Arg Ala Ala Leu Ala Leu
 255288 705 710 715 720
 255289 Ser Gln Ile Gln Glu Leu Ile Gly Ser Met Pro Lys Pro Asn His Asp
 255290 725 730 735
 255291 Thr Leu Arg Tyr Leu Leu Glu His Leu Cys Arg Val Ile Ala His Ser
 255292 740 745 750
 255293 Asp Lys Asn Arg Met Thr Pro His Asn Leu Gly Ile Val Phe Gly Pro
 255294 755 760 765
 255295 Thr Leu Phe Arg Pro Glu Gln Glu Thr Ser Asp Pro Ala Ala His Ala
 255296 770 775 780
 255297 Leu Tyr Pro Gly Gln Leu Val Gln Leu Met Leu Thr Asn Phe Thr Ser
 255298 785 790 795 800
 255299 Leu Phe Pro

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
Output Set: N:\CRF4\01272004\J760320.raw

255303 <210> SEQ ID NO: 4834

255304 <211> LENGTH: 892

255305 <212> TYPE: PRT

255306 <213> ORGANISM: Homo sapiens

appear twice

E--> 255308 <400> SEQUENCE 457

255309	Met	Gln	Asp	Leu	Lys	Lys	Tyr	Lys	Lys	Lys	Gln	Lys	Arg	Met	Lys	
255310	1			5				10				15				
255311	Ser	Arg	Lys	Val	Arg	Lys	Pro	Thr	Glu	Asn	Gln	Glu	Lys	Asn	Ile	Arg
255312				20				25				30				
255313	Lys	Arg	Glu	Arg	Arg	Lys	Lys	Ser	Lys	Arg	Arg	Lys	Arg	Glu	Lys	His
255314				35				40				45				
255315	Lys	His	Asn	Ser	Pro	Ser	Ser	Asp	Asp	Ser	Ser	Asp	Tyr	Ser	Leu	Asp
255316				50				55				60				
255317	Ser	Asp	Val	Glu	His	Thr	Glu	Ser	Ser	His	Lys	Lys	Arg	Thr	Gly	Phe
255318				65			70				75			80		
255319	Tyr	Arg	Asp	Tyr	Asp	Ile	Pro	Phe	Thr	Gln	Arg	Gly	His	Ile	Ser	Gly
255320						85				90			95			
255321	Ser	Tyr	Ile	Thr	Ser	Lys	Lys	Gly	Gln	His	Asn	Lys	Lys	Phe	Lys	Ser
255322						100				105			110			
255323	Lys	Glu	Tyr	Asp	Glu	Tyr	Ser	Thr	Tyr	Ser	Asp	Asp	Asn	Phe	Gly	Asn
255324				115				120					125			
255325	Tyr	Ser	Asp	Asp	Asn	Phe	Gly	Asn	Tyr	Gly	Gln	Glu	Thr	Glu	Glu	Asp
255326				130			135				140					
255327	Phe	Ala	Asn	Gln	Leu	Lys	Gln	Tyr	Arg	Gln	Ala	Lys	Glu	Thr	Ser	Asn
255328				145			150				155			160		
255329	Ile	Ala	Leu	Gly	Ser	Ser	Phe	Ser	Lys	Glu	Ser	Gly	Lys	Lys	Gln	Arg
255330						165				170			175			
255331	Met	Lys	Gly	Val	Gln	Gln	Gly	Ile	Glu	Gln	Arg	Val	Lys	Ser	Phe	Asn
255332						180			185			190				
255333	Val	Gly	Arg	Gly	Arg	Gly	Leu	Pro	Lys	Lys	Ile	Lys	Arg	Lys	Glu	Arg
255334						195			200			205				
255335	Gly	Gly	Arg	Thr	Asn	Lys	Gly	Pro	Asn	Val	Phe	Ser	Val	Ser	Asp	Asp
255336				210			215				220					
255337	Phe	Gln	Glu	Tyr	Asn	Lys	Pro	Gly	Lys	Lys	Trp	Lys	Val	Met	Thr	Gln
255338				225			230				235			240		
255339	Glu	Phe	Ile	Asn	Gln	His	Thr	Val	Glu	His	Lys	Gly	Lys	Gln	Ile	Cys
255340						245				250			255			
255341	Lys	Tyr	Phe	Leu	Glu	Gly	Arg	Cys	Ile	Lys	Gly	Asp	Gln	Cys	Lys	Phe
255342						260			265			270				
255343	Asp	His	Asp	Ala	Glu	Leu	Glu	Lys	Arg	Lys	Glu	Ile	Cys	Lys	Phe	Tyr
255344						275			280			285				
255345	Leu	Gln	Gly	Tyr	Cys	Thr	Lys	Gly	Glu	Asn	Cys	Ile	Tyr	Met	His	Asn
255346				290			295				300					
255347	Glu	Phe	Pro	Cys	Lys	Phe	Tyr	His	Ser	Gly	Ala	Lys	Cys	Tyr	Gln	Gly
255348				305			310				315			320		
255349	Asp	Asn	Cys	Lys	Phe	Ser	His	Asp	Asp	Leu	Thr	Lys	Glu	Thr	Lys	Lys
255350						325				330			335			
255351	Leu	Leu	Asp	Lys	Val	Leu	Asn	Thr	Asp	Glu	Glu	Leu	Ile	Asn	Glu	Asp
255352						340			345			350				

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
 Output Set: N:\CRF4\01272004\J760320.raw

255353 Glu Arg Glu Leu Glu Glu Leu Arg Lys Arg Gly Ile Thr Pro Leu Pro
 255354 355 360 365
 255355 Lys Pro Pro Pro Gly Val Gly Leu Leu Pro Thr Pro Pro Glu His Phe
 255356 370 375 380
 255357 Pro Phe Ser Asp Pro Glu Asp Asp Phe Gln Thr Asp Phe Ser Asp Asp
 255358 385 390 395 400
 255359 Phe Arg Lys Ile Pro Ser Leu Phe Glu Ile Val Val Lys Pro Thr Val
 255360 405 410 415
 255361 Asp Leu Ala His Lys Ile Gly Arg Lys Pro Pro Ala Phe Tyr Thr Ser
 255362 420 425 430
 255363 Ala Ser Pro Pro Gly Pro Gln Phe Gln Gly Ser Ser Pro His Pro Gln
 255364 435 440 445
 255365 His Ile Tyr Ser Ser Gly Ser Ser Pro Gly Pro Gly Pro Asn Met Ser
 255366 450 455 460
 255367 Gln Gly His Ser Ser Pro Val Met His Pro Gly Ser Pro Gly His His
 255368 465 470 475 480
 255369 Pro Cys Ala Gly Pro Pro Gly Leu Pro Val Pro Gln Ser Pro Pro Leu
 255370 485 490 495
 255371 Pro Pro Gly Pro Pro Glu Ile Val Gly Pro Gln Asn Gln Ala Gly Val
 255372 500 505 510
 255373 Leu Val Gln Pro Asp Thr Ser Leu Thr Pro Pro Ser Met Gly Gly Ala
 255374 515 520 525
 255375 Tyr His Ser Pro Gly Phe Pro Gly His Val Met Lys Val Pro Arg Glu
 255376 530 535 540
 255377 Asn His Cys Ser Pro Gly Ser Ser Tyr Gln Gln Ser Pro Gly Glu Met
 255378 545 550 555 560
 255379 Gln Leu Asn Thr Asn Tyr Glu Ser Leu Gln Asn Pro Ala Glu Phe Tyr
 255380 565 570 575
 255381 Asp Asn Tyr Tyr Ala Gln His Ser Ile His Asn Phe Gln Pro Pro Asn
 255382 580 585 590
 255383 Asn Ser Gly Asp Gly Met Trp His Gly Glu Phe Ala Gln Gln Gln Pro
 255384 595 600 605
 255385 Pro Val Val Gln Asp Ser Pro Asn His Gly Ser Gly Ser Asp Gly Ser
 255386 610 615 620
 255387 Ser Thr Arg Thr Gly His Gly Pro Leu Pro Val Pro Gly Leu Leu Pro
 255388 625 630 635 640
 255389 Ala Val Gln Arg Ala Leu Phe Val Arg Leu Thr Gln Arg Tyr Gln Glu
 255390 645 650 655
 255391 Asp Glu Glu Gln Thr Ser Thr Gln Pro His Arg Ala Pro Ser Lys Glu
 255392 660 665 670
 255393 Glu Asp Asp Thr Val Asn Trp Tyr Ser Ser Ser Glu Glu Glu Gly
 255394 675 680 685
 255395 Ser Ser Val Lys Ser Ile Leu Lys Thr Leu Gln Lys Gln Thr Glu Thr
 255396 690 695 700
 255397 Leu Arg Asn Gln Gln Pro Ser Thr Glu Leu Ser Thr Pro Thr Asp
 255398 705 710 715 720
 255399 Pro Arg Leu Ala Lys Glu Lys Ser Lys Gly Asn Gln Val Val Asp Pro
 255400 725 730 735
 255401 Arg Leu Arg Thr Ile Pro Arg Gln Asp Ile Arg Lys Pro Ser Glu Ser

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
 Output Set: N:\CRF4\01272004\J760320.raw

255402 740 745 750
 255403 Ala Pro Leu Asp Leu Arg Leu Ala Trp Asp Pro Arg Lys Leu Arg Gly
 255404 755 760 765
 255405 Asn Gly Ser Gly His Ile Gly Ser Ser Val Gly Gly Ala Lys Phe Asp
 255406 770 775 780
 255407 Leu His His Ala Asn Ala Gly Thr Asn Val Lys His Lys Arg Gly Asp
 255408 785 790 795 800
 255409 Asp Asp Asp Glu Asp Thr Glu Arg Glu Leu Gly Glu Lys Ala Phe Leu
 255410 805 810 815
 255411 Ile Pro Leu Asp Ala Ser Pro Gly Ile Met Leu Gln Asp Pro Arg Ser
 255412 820 825 830
 255413 Gln Leu Arg Gln Phe Ser His Ile Lys Lys Asp Ile Thr Leu Thr Lys
 255414 835 840 845
 255415 Pro Asn Phe Ala Lys His Ile Val Trp Ala Pro Glu Asp Leu Leu Pro
 255416 850 855 860
 255417 Val Pro Leu Pro Lys Pro Asp Pro Val Ser Ser Ile Asn Leu Pro Leu
 255419 865 870 875 880
 255420 Pro Pro Leu Ile Ala Asp Gln Arg Leu Asn Arg Leu
 255421 885 890
 255424 <210> SEQ ID NO: 4835
 255425 <211> LENGTH: 891 *Appears twice*
 255426 <212> TYPE: PRT
 255427 <213> ORGANISM: Homo sapiens

E--> 255429 <400> SEQUENCE: 458

255430 Met Ala Leu Thr Gln Gly Pro Leu Thr Phe Arg Asp Val Ala Ile Glu
 255431 1 5 10 15
 255432 Phe Ser Gln Glu Glu Trp Lys Ser Leu Asp Pro Val Gln Lys Ala Leu
 255433 20 25 30
 255434 Tyr Trp Asp Val Met Leu Glu Asn Tyr Arg Asn Leu Val Phe Leu Gly
 255435 35 40 45
 255436 Ile Leu Pro Lys Cys Met Thr Lys Glu Leu Pro Pro Ile Gly Asn Ser
 255437 50 55 60
 255438 Asn Thr Gly Glu Lys Cys Gln Thr Val Thr Leu Glu Arg His Glu Cys
 255439 65 70 75 80
 255440 Tyr Asp Val Glu Asn Phe Tyr Leu Arg Glu Ile Gln Lys Asn Leu Gln
 255441 85 90 95
 255442 Asp Leu Glu Phe Gln Trp Lys Asp Gly Glu Ile Asn Tyr Lys Glu Val
 255443 100 105 110
 255444 Pro Met Thr Tyr Lys Asn Asn Leu Asn Gly Lys Arg Gly Gln His Ser
 255445 115 120 125
 255446 Gln Glu Asp Val Glu Asn Lys Cys Ile Glu Asn Gln Leu Thr Leu Ser
 255447 130 135 140
 255448 Phe Gln Ser Arg Leu Thr Glu Leu Gln Lys Phe Gln Thr Glu Gly Lys
 255449 145 150 155 160
 255450 Ile Tyr Glu Cys Asn Gln Ser Glu Lys Thr Val Asn Asn Ser Ser Leu
 255451 165 170 175
 255452 Val Ser Pro Leu Gln Arg Ile Leu Pro Ser Val Gln Thr Asn Ile Ser
 255453 180 185 190
 255454 Lys Lys Tyr Glu Asn Glu Phe Leu Gln Leu Ser Leu Pro Thr Gln Leu

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004
TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US(Sequence listing).txt
Output Set: N:\CRF4\01272004\J760320.raw

255455	195	200	205
255456	Glu Lys Thr His Ile Arg Glu Lys Pro Tyr Ile Cys Lys Gly Cys Gly		
255457	210	215	220
255458	Lys Ala Phe Arg Val Ser Ser Ser Leu Ile Asn His Gln Met Val His		
255459	225	230	235
255460	240		
255461	Thr Thr Glu Lys Pro Tyr Lys Cys Asn Glu Cys Gly Lys Ala Phe His	245	250
255462	255		
255463	Arg Gly Ser Leu Leu Thr Ile His Gln Ile Val His Thr Arg Gly Lys	260	265
255464	270		
255465	Pro Tyr Gln Cys Gly Val Cys Gly Lys Ile Phe Arg Gln Asn Ser Asp	275	280
255466	285		
255467	Leu Val Asn His Arg Arg Ser His Thr Gly Glu Lys Pro Tyr Lys Cys	290	295
255468	300		
255469	Asn Glu Cys Gly Lys Ser Phe Ser Gln Ser Tyr Asn Leu Ala Ile His	305	310
255470	320		
255471	Gln Arg Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Asn Glu Cys Gly	325	330
255472	335		
255473	Lys Thr Phe Lys Gln Gly Ser Cys Leu Thr Thr His Gln Ile Ile His	340	345
255474	350		
255475	Thr Gly Glu Lys Pro Tyr Gln Cys Asp Ile Cys Gly Lys Val Phe Arg	355	360
255476	365		
255477	Gln Asn Ser Asn Leu Val Asn His Gln Arg Ile His Thr Gly Glu Lys	370	375
255478	380		
255479	Pro Tyr Lys Cys Asn Ile Cys Gly Lys Ser Phe Ser Gln Ser Ser Asn	385	390
255480	400		
255481	Leu Ala Thr His Gln Thr Val His Ser Gly Asn Lys Pro Tyr Lys Cys	405	410
255482	415		
255483	Asp Glu Cys Gly Lys Thr Phe Lys Arg Ser Ser Ser Leu Thr Thr His	420	425
255484	430		
255485	Gln Val Ile His Thr Gly Glu Lys Pro Tyr Thr Cys Asp Val Cys Asp	435	440
255486	445		
255487	Lys Val Phe Ser Gln Arg Ser Gln Leu Ala Arg His Gln Arg Gly His	450	455
255488	460		
255489	Thr Gly Glu Lys Pro Tyr Lys Cys Asn Glu Cys Gly Lys Val Phe Ser	465	470
255490	480		
255491	Gln Thr Ser His Leu Val Gly His Arg Arg Ile His Thr Gly Glu Lys	485	490
255492	495		
255493	Pro Tyr Lys Cys Asp Lys Cys Gly Lys Ala Phe Lys Gln Gly Ser Leu	500	505
255494	510		
255495	Leu Thr Arg His Lys Ile Ile His Thr Arg Glu Lys Arg Tyr Gln Cys	515	520
255496	525		
255497	Gly Glu Cys Gly Lys Val Phe Ser Glu Asn Ser Cys Leu Val Arg His	530	535
255498	540		
255499	Leu Arg Ile His Thr Gly Glu Gln Pro Tyr Lys Cys Asn Val Cys Gly	545	550
255500	560		
255501	Lys Val Phe Asn Tyr Ser Gly Asn Leu Ser Ile His Lys Arg Ile Arg	565	570
255502	575		
255503	Thr Gly Glu Lys Pro Phe Gln Cys Asn Glu Cys Gly Thr Val Phe Arg	580	585
	590		

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
 Output Set: N:\CRF4\01272004\J760320.raw

255504 Asn Tyr Ser Cys Leu Ala Arg His Leu Arg Ile His Thr Gly Gln Lys
 255505 595 600 605
 255506 Pro Tyr Lys Cys Asn Val Cys Gly Lys Val Phe Asn Asp Ser Gly Asn
 255507 610 615 620
 255508 Leu Ser Asn His Lys Arg Ile His Thr Gly Glu Lys Pro Phe Gln Cys
 255509 625 630 635 640
 255510 Asn Glu Cys Gly Lys Val Phe Ser Tyr Tyr Ser Cys Leu Ala Arg His
 255511 645 650 655
 255512 Arg Lys Ile His Ala Gly Glu Lys Pro Tyr Lys Cys Asn Asp Cys Gly
 255513 660 665 670
 255514 Lys Ala Tyr Thr Gln Arg Ser Ser Leu Thr Lys His Leu Ile Ile His
 255515 675 680 685
 255516 Thr Gly Glu Lys Pro Tyr Asn Cys Asn Glu Phe Gly Gly Ala Phe Ile
 255517 690 695 700
 255518 Gln Ser Ser Lys Leu Ala Arg Tyr His Arg Asn Pro Thr Gly Glu Lys
 255519 705 710 715 720
 255520 Pro His Lys Cys Ser His Cys Gly Arg Thr Phe Ser His Ile Thr Gly
 255521 725 730 735
 255522 Leu Thr Tyr His Gln Arg Arg His Thr Gly Glu Met Pro Tyr Lys Cys
 255523 740 745 750
 255524 Ile Glu Cys Gly Gln Val Phe Asn Ser Thr Ser Asn Leu Ala Arg His
 255525 755 760 765
 255526 Arg Arg Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Asn Glu Cys Gly
 255527 770 775 780
 255528 Lys Val Phe Arg His Gln Ser Thr Leu Ala Arg His Arg Ser Ile His
 255529 785 790 795 800
 255530 Thr Gly Glu Lys Pro Tyr Val Cys Ser Glu Cys Gly Lys Ala Phe Arg
 255531 805 810 815
 255532 Val Arg Ser Ile Leu Val Asn His Gln Lys Met His Thr Gly Asp Lys
 255533 820 825 830
 255534 Pro Tyr Lys Cys Asn Glu Cys Gly Lys Ala Phe Ile Glu Arg Ser Lys
 255535 835 840 845
 255536 Leu Val Tyr His Gln Arg Asn His Thr Gly Glu Lys Pro Tyr Lys Cys
 255537 850 855 860
 255538 Ile Glu Cys Gly Lys Ala Phe Gly Arg Phe Ser Cys Leu Asn Lys His
 255539 865 870 875 880
 255540 Gln Met Ile His Ser Gly Glu Lys Pro Tyr Lys
 255541 885 890
 255544 <210> SEQ ID NO: 4836
 255545 <211> LENGTH: 374 *appear twice*
 255546 <212> TYPE: PRT
 255547 <213> ORGANISM: Homo sapiens
E--> 255549 <400> SEQUENCE: 459
 255550 Met Ile Glu Tyr Gln Ile Pro Val Ser Phe Lys Asp Val Val Val Gly
 255551 1 5 10 15
 255552 Phe Thr Gln Glu Glu Trp His Arg Leu Ser Pro Ala Gln Arg Ala Leu
 255553 20 25 30
 255554 Tyr Arg Asp Val Met Leu Glu Thr Tyr Ser Asn Leu Ala Ser Val Gly
 255555 35 40 45

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
 Output Set: N:\CRF4\01272004\J760320.raw

255556 Tyr Glu Gly Thr Lys Pro Asp Val Ile Leu Arg Leu Glu Gln Glu Glu
 255557 50 55 60
 255558 Ala Pro Trp Ile Gly Glu Ala Ala Cys Pro Gly Cys His Cys Trp Glu
 255559 65 70 75 80
 255560 Asp Ile Trp Arg Val Asn Ile Gln Arg Lys Arg Arg Gln Asp Met Leu
 255561 85 90 95
 255562 Leu Arg Pro Gly Ala Ala Ile Ser Lys Lys Thr Leu Pro Lys Glu Lys
 255563 100 105 110
 255564 Ser Cys Glu Tyr Asn Lys Phe Gly Lys Ile Ser Leu Leu Ser Thr Asp
 255565 115 120 125
 255566 Leu Phe Ser Ser Ile Gln Ser Pro Ser Asn Trp Asn Pro Cys Gly Lys
 255567 130 135 140
 255568 Asn Leu Asn His Asn Leu Asp Leu Ile Gly Phe Lys Arg Asn Cys Ala
 255569 145 150 155 160
 255570 Lys Lys Gln Asp Glu Cys Tyr Ala Tyr Gly Lys Leu Leu Gln Arg Ile
 255571 165 170 175
 255572 Asn His Gly Arg Arg Pro Asn Gly Glu Lys Pro Arg Gly Cys Ser His
 255573 180 185 190
 255574 Cys Glu Lys Ala Phe Thr Gln Asn Pro Ala Leu Met Tyr Lys Pro Ala
 255575 195 200 205
 255576 Val Ser Asp Ser Leu Leu Tyr Lys Arg Lys Arg Val Pro Pro Thr Glu
 255577 210 215 220
 255578 Lys Pro His Val Cys Ser Glu Cys Gly Lys Ala Phe Cys Tyr Lys Ser
 255579 225 230 235 240
 255580 Glu Phe Ile Arg His Gln Arg Ser His Thr Gly Glu Lys Pro Tyr Gly
 255581 245 250 255
 255582 Cys Thr Asp Cys Gly Lys Ala Phe Ser His Lys Ser Thr Leu Ile Lys
 255583 260 265 270
 255584 His Gln Arg Ile His Thr Gly Val Arg Pro Phe Glu Cys Phe Phe Cys
 255585 275 280 285
 255586 Gly Lys Ala Phe Thr Gln Lys Ser His Arg Thr Glu His Gln Arg Thr
 255587 290 295 300
 255588 His Thr Gly Glu Arg Pro Phe Val Cys Ser Glu Cys Gly Lys Ser Phe
 255589 305 310 315 320
 255590 Gly Glu Lys Ser Tyr Leu Asn Val His Arg Lys Met His Thr Gly Glu
 255591 325 330 335
 255592 Arg Pro Tyr Arg Cys Arg Glu Cys Gly Lys Ser Phe Ser Gln Lys Ser
 255593 340 345 350
 255594 Cys Leu Asn Lys His Trp Arg Thr His Phe Gly Glu Ser Ser Leu Arg
 255595 355 360 365
 255596 Ser Lys Ser Ser Asn Thr
 255597 370
 255600 <210> SEQ ID NO: 4837
 255601 <211> LENGTH: 896 *Appears Twice*
 255602 <212> TYPE: PRT
 255603 <213> ORGANISM: Homo sapiens
E--> 255605 <400> SEQUENCE: 460
 255606 Met Thr Glu Glu Ser Glu Glu Thr Val Leu Tyr Ile Glu His Arg Tyr
 255607 1 5 10 15

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
 Output Set: N:\CRF4\01272004\J760320.raw

255608 Val Cys Ser Glu Cys Asn Gln Leu Tyr Gly Ser Leu Glu Glu Val Leu
 255609 20 25 30
 255610 Met His Gln Asn Ser His Val Pro Gln Gln His Phe Glu Leu Val Gly
 255611 35 40 45
 255612 Val Ala Asp Pro Gly Val Thr Val Ala Thr Asp Thr Ala Ser Gly Thr
 255613 50 55 60
 255614 Gly Leu Tyr Gln Thr Leu Val Gln Glu Ser Gln Tyr Gln Cys Leu Glu
 255615 65 70 75 80
 255616 Cys Gly Gln Leu Leu Met Ser Pro Ser Gln Leu Leu Glu His Gln Glu
 255617 85 90 95
 255618 Leu His Leu Lys Met Met Ala Pro Gln Glu Ala Val Pro Ala Glu Pro
 255619 100 105 110
 255620 Ser Pro Lys Ala Pro Pro Leu Ser Ser Ser Thr Ile His Tyr Glu Cys
 255621 115 120 125
 255622 Val Asp Cys Lys Ala Leu Phe Ala Ser Gln Glu Leu Trp Leu Asn His
 255623 130 135 140
 255624 Arg Gln Thr His Leu Arg Ala Thr Pro Thr Lys Ala Pro Ala Pro Val
 255625 145 150 155 160
 255626 Val Leu Gly Ser Pro Val Val Leu Gly Pro Pro Val Gly Gln Ala Arg
 255627 165 170 175
 255628 Val Ala Val Glu His Ser Tyr Arg Lys Ala Glu Glu Gly Gly Glu Gly
 255629 180 185 190
 255630 Ala Thr Val Pro Ser Ala Ala Ala Thr Thr Thr Glu Val Val Thr Glu
 255631 195 200 205
 255632 Val Glu Leu Leu Tyr Lys Cys Ser Glu Cys Ser Gln Leu Phe Gln
 255633 210 215 220
 255634 Leu Pro Ala Asp Phe Leu Glu His Gln Ala Thr His Phe Pro Ala Pro
 255635 225 230 235 240
 255636 Val Pro Glu Ser Gln Glu Pro Ala Leu Gln Gln Glu Val Gln Ala Ser
 255637 245 250 255
 255638 Ser Pro Ala Glu Val Pro Val Ser Gln Pro Asp Pro Leu Pro Ala Ser
 255639 260 265 270
 255640 Asp His Ser Tyr Glu Leu Arg Asn Gly Glu Ala Ile Gly Arg Asp Arg
 255641 275 280 285
 255642 Arg Gly Arg Arg Ala Arg Arg Asn Asn Ser Gly Glu Ala Gly Gly Ala
 255643 290 295 300
 255644 Ala Thr Gln Glu Leu Phe Cys Ser Ala Cys Asp Gln Leu Phe Leu Ser
 255645 305 310 315 320
 255646 Pro His Gln Leu Gln Gln His Leu Arg Ser His Arg Glu Gly Val Phe
 255647 325 330 335
 255648 Lys Cys Pro Leu Cys Ser Arg Val Phe Pro Ser Pro Ser Ser Leu Asp
 255649 340 345 350
 255650 Gln His Leu Gly Asp His Ser Ser Glu Ser His Phe Leu Cys Val Asp
 255651 355 360 365
 255652 Cys Gly Leu Ala Phe Gly Thr Glu Ala Leu Leu Leu Ala His Arg Arg
 255653 370 375 380
 255654 Ala His Thr Pro Asn Pro Leu His Ser Cys Pro Cys Gly Lys Thr Phe
 255655 385 390 395 400
 255656 Val Asn Leu Thr Lys Phe Leu Tyr His Arg Arg Thr His Gly Val Gly

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
 Output Set: N:\CRF4\01272004\J760320.raw

255657	405	410	415
255658	Gly Val Pro Leu Pro Thr Thr Pro Val Pro Pro Glu Glu Pro Val Ile		
255659	420	425	430
255660	Gly Phe Pro Glu Pro Ala Pro Ala Glu Thr Gly Glu Pro Glu Ala Pro		
255661	435	440	445
255662	Glu Pro Pro Val Ser Glu Glu Thr Ser Ala Gly Pro Ala Ala Pro Gly		
255663	450	455	460
255664	Thr Tyr Arg Cys Leu Leu Cys Ser Arg Glu Phe Gly Lys Ala Leu Gln		
255665	465	470	475
255666	480		
255667	Leu Thr Arg His Gln Arg Phe Val His Arg Leu Glu Arg Arg His Lys		
255668	485	490	495
255669	Cys Ser Ile Cys Gly Lys Met Phe Lys Lys Ser His Val Arg Asn		
255670	500	505	510
255671	Arg Leu Arg Thr His Thr Gly Glu Arg Pro Phe Pro Cys Pro Asp Cys		
255672	515	520	525
255673	Ser Lys Pro Phe Asn Ser Pro Ala Asn Leu Ala Arg His Arg Leu Thr		
255674	530	535	540
255675	His Thr Gly Glu Arg Pro Tyr Arg Cys Gly Asp Cys Gly Lys Ala Phe		
255676	545	550	555
255677	560		
255678	Thr Gln Ser Ser Thr Leu Arg Gln His Arg Leu Val His Ala Gln His		
255679	565	570	575
255680	Phe Pro Tyr Arg Cys Gln Glu Cys Gly Val Arg Phe His Arg Pro Tyr		
255681	580	585	590
255682	Arg Leu Leu Met His Arg Tyr His His Thr Gly Glu Tyr Pro Tyr Lys		
255683	595	600	605
255684	Cys Arg Glu Cys Pro Arg Ser Phe Leu Leu Arg Arg Leu Leu Glu Val		
255685	610	615	620
255686	His Gln Leu Val Val His Ala Gly Arg Gln Pro His Arg Cys Pro Ser		
255687	625	630	635
255688	640		
255689	Cys Gly Ala Ala Phe Pro Ser Ser Leu Arg Leu Arg Glu His Arg Cys		
255690	645	650	655
255691	Ala Ala Ala Ala Ala Gln Ala Pro Arg Arg Phe Glu Cys Gly Thr Cys		
255692	660	665	670
255693	Gly Lys Lys Val Gly Ser Ala Ala Arg Leu Gln Ala His Glu Ala Ala		
255694	675	680	685
255695	His Ala Ala Ala Gly Pro Gly Glu Val Leu Ala Lys Glu Pro Pro Ala		
255696	690	695	700
255697	705	710	715
255698	720		
255699	Leu Gly Ser Thr Ala Thr Ala Ser Pro Ala Ala Pro Ala Arg Arg Arg		
255700	725	730	735
255701	Gly Leu Glu Cys Ser Glu Cys Lys Lys Leu Phe Ser Thr Glu Thr Ser		
255702	740	745	750
255703	Leu Gln Val His Arg Arg Ile His Thr Gly Glu Arg Pro Tyr Pro Cys		
255704	755	760	765
255705	Pro Asp Cys Gly Lys Ala Phe Arg Gln Ser Thr His Leu Lys Asp His		
255706	770	775	780
255707	Arg Arg Leu His Thr Gly Glu Arg Pro Phe Ala Cys Glu Val Cys Gly		
255708	785	790	795
255709	800		

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
Output Set: N:\CRF4\01272004\J760320.raw

255707 Lys Ala Phe Ala Ile Ser Met Arg Leu Ala Glu His Arg Arg Ile His
 255708 805 810 815
 255709 Thr Gly Glu Arg Pro Tyr Ser Cys Pro Asp Cys Gly Lys Ser Tyr Arg
 255710 820 825 830
 255711 Ser Phe Ser Asn Leu Trp Lys His Arg Lys Thr His Gln Gln Gln His
 255712 835 840 845
 255713 Gln Ala Ala Val Arg Gln Gln Leu Ala Glu Ala Glu Ala Ala Val Gly
 255714 850 855 860
 255715 Leu Ala Val Met Glu Thr Ala Val Glu Ala Leu Pro Leu Val Glu Ala
 255716 865 870 875 880
 255717 Ile Glu Ile Tyr Pro Leu Ala Glu Ala Glu Gly Val Gln Ile Ser Gly
 255718 885 890 895
 255721 <210> SEQ ID NO: 4838
 255722 <211> LENGTH: 464 *appears twice*
 255723 <212> TYPE: PRT
 255724 <213> ORGANISM: Homo sapiens

E--> 255726 <400> SEQUENCE: 461

255727 Met Phe Glu Asn Glu Ser Arg Lys Ile Phe Ser Glu Met Pro Glu Gly
 255728 1 5 10 15
 255729 Glu Ser Ala Gln His Ser Asp Gly Glu Ser Asp Phe Glu Arg Asp Ala
 255730 20 25 30
 255731 Gly Ile Gln Arg Leu Gln Gly His Thr Pro Gly Glu Asp His Gly Glu
 255732 35 40 45
 255733 Val Val Ser Gln Asp Arg Glu Val Gly Gln Leu Ile Gly Leu Gln Gly
 255734 50 55 60
 255735 Thr Tyr Leu Gly Glu Lys Pro Tyr Glu Cys Pro Gln Cys Gly Lys Thr
 255736 65 70 75 80
 255737 Phe Ser Pro Lys Ser His Leu Ile Thr His Glu Arg Thr His Thr Gly
 255738 85 90 95
 255739 Glu Lys Tyr Tyr Lys Cys Asp Glu Cys Gly Lys Ser Phe Ser Asp Gly
 255740 100 105 110
 255741 Ser Asn Phe Ser Arg His Gln Thr Thr His Thr Gly Glu Lys Pro Tyr
 255742 115 120 125
 255743 Lys Cys Arg Asp Cys Gly Lys Ser Phe Ser Arg Ser Ala Asn Leu Ile
 255744 130 135 140
 255745 Thr His Gln Arg Ile His Thr Gly Glu Lys Pro Phe Gln Cys Ala Glu
 255746 145 150 155 160
 255747 Cys Gly Lys Ser Phe Ser Arg Ser Pro Asn Leu Ile Ala His Gln Arg
 255748 165 170 175
 255749 Thr His Thr Gly Glu Lys Pro Tyr Ser Cys Pro Glu Cys Gly Lys Ser
 255750 180 185 190
 255751 Phe Gly Asn Arg Ser Ser Leu Asn Thr His Gln Gly Ile His Thr Gly
 255752 195 200 205
 255753 Glu Lys Pro Tyr Glu Cys Lys Glu Cys Gly Glu Ser Phe Ser Tyr Asn
 255754 210 215 220
 255755 Ser Asn Leu Ile Arg His Gln Arg Ile His Thr Gly Glu Glu Pro Tyr
 255756 225 230 235 240
 255757 Lys Cys Thr Asp Cys Gly Gln Arg Phe Ser Gln Ser Ser Ala Leu Ile
 255758 245 250 255

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004
TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
Output Set: N:\CRF4\01272004\J760320.raw

255759 Thr His Arg Arg Thr His Thr Gly Glu Lys Pro Tyr Gln Cys Ser Glu
255760 260 265 270
255761 Cys Gly Lys Ser Phe Ser Arg Ser Ser Asn Leu Ala Thr His Arg Arg
255762 275 280 285
255763 Thr His Met Val Glu Lys Pro Tyr Lys Cys Gly Val Cys Gly Lys Ser
255764 290 295 300
255765 Phe Ser Gln Ser Ser Ser Leu Ile Ala His Gln Gly Met His Thr Gly
255766 305 310 315 320
255767 Glu Lys Pro Tyr Glu Cys Leu Thr Cys Gly Glu Ser Phe Ser Trp Ser
255768 325 330 335
255769 Ser Asn Leu Leu Lys His Gln Arg Ile His Thr Gly Glu Lys Pro Tyr
255770 340 345 350
255771 Lys Cys Ser Glu Cys Gly Lys Cys Phe Ser Gln Arg Ser Gln Leu Val
255772 355 360 365
255773 Val His Gln Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Leu Met
255774 370 375 380
255775 Cys Gly Lys Ser Phe Ser Arg Gly Ser Ile Leu Val Met His Gln Arg
255776 385 390 395 400
255777 Ala His Leu Gly Asp Lys Pro Tyr Arg Cys Pro Glu Cys Gly Lys Gly
255778 405 410 415
255779 Phe Ser Trp Asn Ser Val Leu Ile Ile His Gln Arg Ile His Thr Gly
255780 420 425 430
255781 Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys Gly Phe Ser Asn Ser
255782 435 440 445
255783 Ser Asn Phe Ile Thr His Gln Arg Thr His Met Lys Glu Lys Leu Tyr
255784 450 455 460

255787 <210> SEQ ID NO: 4839

255788 <211> LENGTH: 347

255789 <212> TYPE: PRT

appear to be

255790 <213> ORGANISM: Homo sapiens

E--> 255792 <400> SEQUENCE: 462

255793 Met Ser Gly Pro Gly Asn Lys Arg Ala Ala Gly Asp Gly Gly Ser Gly
255794 1 5 10 15
255795 Pro Pro Glu Lys Lys Leu Ser Arg Glu Glu Lys Thr Thr Thr Leu
255796 20 25 30
255797 Ile Glu Pro Ile Arg Leu Gly Gly Ile Ser Ser Thr Glu Glu Met Asp
255798 35 40 45
255799 Leu Lys Val Leu Gln Phe Lys Asn Lys Lys Leu Ala Glu Arg Leu Glu
255800 50 55 60
255801 Gln Arg Gln Ala Cys Glu Asp Glu Leu Arg Glu Arg Ile Glu Lys Leu
255802 65 70 75 80
255803 Glu Lys Arg Gln Ala Thr Asp Asp Ala Thr Leu Leu Ile Val Asn Arg
255804 85 90 95
255805 Tyr Trp Ala Gln Leu Asp Glu Thr Val Glu Ala Leu Leu Arg Cys His
255806 100 105 110
255807 Glu Ser Arg Ile Arg Glu Leu Glu Glu Arg Asp Arg Arg Glu Ser Lys
255808 115 120 125
255809 Lys Ile Ala Asp Glu Asp Ala Leu Arg Arg Ile Arg Gln Ala Glu Glu
255810 130 135 140

VERY IMPORTANT

The types of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004

TIME: 11:25:28

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
 Output Set: N:\CRF4\01272004\J760320.raw

255811 Gln Ile Glu His Leu Gln Arg Lys Leu Gly Ala Thr Lys Gln Glu Glu
 255812 145 150 155 160
 255813 Glu Ala Leu Leu Ser Glu Met Asp Ala Gln Leu Leu Thr Val Gln Lys
 255814 165 170 175
 255815 Leu Glu Glu Lys Glu Arg Ala Leu Gln Gly Ser Leu Gly Gly Val Glu
 255816 180 185 190
 255817 Lys Glu Leu Thr Leu Arg Ser Gln Ala Leu Glu Leu Asn Lys Arg Lys
 255818 195 200 205
 255819 Ala Val Glu Ala Ala Gln Leu Ala Glu Asp Leu Lys Val Gln Leu Glu
 255820 210 215 220
 255821 His Val Gln Thr Arg Leu Arg Glu Ile Gln Pro Cys Leu Ala Glu Ser
 255822 225 230 235 240
 255823 Arg Ala Ala Arg Glu Lys Glu Ser Phe Asn Leu Lys Arg Ala Gln Glu
 255824 245 250 255
 255825 Asp Ile Ser Arg Leu Arg Arg Lys Leu Glu Lys Gln Arg Lys Val Glu
 255826 260 265 270
 255827 Val Tyr Ala Asp Ala Asp Glu Ile Leu Gln Glu Glu Ile Lys Glu Tyr
 255828 275 280 285
 255829 Lys Ala Arg Leu Thr Cys Pro Cys Cys Asn Thr Arg Lys Lys Asp Ala
 255830 290 295 300
 255831 Val Leu Thr Lys Cys Phe His Val Phe Cys Phe Glu Cys Val Arg Gly
 255832 305 310 315 320
 255833 Arg Tyr Glu Ala Arg Gln Arg Lys Cys Pro Lys Cys Asn Ala Ala Phe
 255834 325 330 335
 255835 Gly Ala His Asp Phe His Arg Ile Tyr Ile Ser
 255836 340 345
 416828 <210> SEQ ID NO: 4994
 416829 <211> LENGTH: 21
 416830 <212> TYPE: DNA
 416831 <213> ORGANISM: Artificial Sequence
 416833 <220> FEATURE:
 416834 <223> OTHER INFORMATION: Description of Artificial Sequence: an artificially
 416835 synthesized primer sequence
 416837 <400> SEQUENCE: 4994
 416838 qcggctgaag acggcctatg t 21

E--> 416842 1

delete

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004

TIME: 11:25:43

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt

Output Set: N:\CRF4\01272004\J760320.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:254348 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4820
differs:443
L:254418 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4821
differs:444
L:254464 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4822
differs:445
L:254552 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4823
differs:446
L:254666 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4824
differs:447
L:254800 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4825
differs:448
L:254822 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4826
differs:449
L:254848 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4827
differs:450
L:254888 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4828
differs:451
L:254990 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4829
differs:452
L:255070 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4830
differs:453
L:255096 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4831
differs:454
L:255128 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4832
differs:455
L:255198 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4833
differs:456
L:255308 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4834
differs:457
L:255429 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4835
differs:458
L:255549 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4836
differs:459
L:255605 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4837
differs:460
L:255726 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4838
differs:461
L:255792 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4839
differs:462
L:255844 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4840
differs:463
L:255979 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4841
differs:464
L:256077 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4842
differs:465
L:256127 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4843
differs:466
L:256200 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4844
differs:467
L:256260 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4845

differs:468
L:256345 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4846
differs:469
L:256425 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4847
differs:470
L:256471 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4848
differs:471
L:256537 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4849
differs:472
L:256577 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4850
differs:473
L:256673 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4851
differs:474
L:256709 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4852
differs:475
L:256743 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4853
differs:476
L:256770 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4854
differs:477
L:256850 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4855
differs:478
L:256911 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4856
differs:479
L:256945 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4857
differs:480
L:256981 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4858
differs:481
L:257024 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4859
differs:482
L:257052 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4860
differs:483
L:257096 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4861
differs:484
L:257124 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4862
differs:485
L:257231 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4863
differs:486
L:257255 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4864
differs:487
L:257281 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4865
differs:488

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/760,320

DATE: 01/27/2004

TIME: 11:25:43

Input Set : D:\BTR-A0201Y1sq-US (Sequence listing).txt
Output Set: N:\CRF4\01272004\J760320.raw

L:257381 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4866
differs:489

L:257426 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4867
differs:490

L:257452 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4868
differs:491

L:257496 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4869
differs:492

L:416842 M:254 E: No. of Bases conflict, this line has no nucleotides.

L:9 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (4994) Counted (7988)

The types of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.